

SECOND SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2020

(CUCBCSS—UG)

Optometry

SDC 2BC 06—BIOCHEMISTRY

Time : Three Hours

Maximum : 80 Marks

Section A (Very Short Answer)*Answer all questions.**Each question carries 1 mark.*

1. Write any two early complications of Diabetes mellitus.
2. Adrenaline is synthesized from _____.
3. _____ is an example for Glucocorticoid.
4. Name the essential component of vitamin B12.
5. Iron deficiency causes _____.
6. The corneal epithelium derives oxygen mainly from _____.
7. Name two neuropeptides.
8. The main site of urea synthesis in mammals is _____.
9. Nitrogenous base in lecithin is _____.
10. Name the vitamin synthesised by bacteria in the intestine.

(10 × 1 = 10 marks)

Section B (Short Answer)*Answer any eight questions.**Each question carries 2 marks.*

11. What is Hypocalcemia ?
12. Define Coenzyme.
13. What are essential amino acids ? Give examples.
14. Write the serum values of HDL and LDL.
15. Name the buffers in blood.
16. Recall Disaccharides. Give examples.

Turn over

17. What are the Urinary findings in obstructive jaundice ?
18. Add a short note on Scurvy.
19. Differentiate between osmosis and dialysis.
20. Write about the breakdown of Haemoglobin.
21. List any four microminerals.
22. What is mini GTT ?

(8 × 2 = 16 marks)

Section C (Short Essay)

*Answer any six questions.
Each question carries 4 marks.*

23. Explain glycogenolysis.
24. Describe Wald's visual cycle.
25. Write about the biochemical composition of lens.
26. Discuss Second messengers in hormone action.
27. Briefly explain heme synthesis.
28. Differentiate between hypoglycemia and hyperglycemia.
29. Elaborate on essential fatty acids.
30. Discuss about atherosclerosis.
31. Describe the plasma proteins.

(6 × 4 = 24 marks)

Section D (Essay)

*Answer any two questions.
Each question carries 15 marks.*

32. Comment on glycolysis and add a note on its bioenergetics.
33. Define phospholipids. Classify them with suitable examples and state their functions.
34. Explain the dietary sources, biochemical functions and deficiency manifestations of Vitamin A.
35. Classify proteins in various ways with suitable examples.

(2 × 15 = 30 marks)

SECOND SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2020

(CUCBCSS—UG)

Optometry

SDC 2GO 05—GEOMETRICAL OPTICS

Time : Three Hours

Maximum : 80 Marks

Section A (Very Short Answer)*Answer all questions.**Each question carries 1 mark.*

1. Define wavefront.
2. Newton's corpuscular theory explains the phenomenon of _____.
3. Speed of light in free space is _____.
4. Define monochromatic light.
5. Fermat's principle explain the propagation of light in _____.
6. First law of reflections is _____.
7. The basic principle of fibre optics is _____.
8. Cylindrical lens is used to correct _____.
9. A _____ prism is made from calcite crystal.
10. In quantum optics light particles are called _____.

(10 × 1 = 10 marks)

Section B (Short Answer)*Answer any eight questions.**Each question carries 2 marks.*

11. State Fermat's principle.
12. Define dispersive power of a prism.
13. Describe quantum theory of light.
14. What are cardinal points of a lens ?
15. Describe a thin prism.
16. Define numerical aperture of optical fibre.

Turn over

17. State Huygens wave theory of light.
18. Compare crown glass and flint glass.
19. What is chromatic aberration and how it is corrected ?
20. Write any four properties of light.
21. State and explain Snell's law.
22. Why ray optics is called geometrical optics ?

(8 × 2 = 16 marks)

Section C (Short Essay)

*Answer any six questions.
Each question carries 4 marks.*

23. Describe dual nature of light.
24. Explain the uses of prism in ophthalmology.
25. What are monochromatic aberrations? Explain first order theory.
26. What do you mean by system matrix of an optical system? Obtain system matrix for a thick lens.
27. Explain the uses of optical fibres.
28. Explain cardinal points of a thick lens.
29. Explain Newton's corpuscular theory and its successes and failures.
30. Explain dispersion of light by a prism.
31. Two thin convex lenses of focal length 12 cm and 6 cm are placed coaxially 8 cm apart. Determine the focal length and power of the combination.

(6 × 4 = 24 marks)

Section D (Essay)

*Answer any two questions.
Each question carries 15 marks.*

32. Explain various theories about the nature of light in detail.
33. Describe different types of optical fibres and the propagation of light through them with necessary theory.
34. State and explain laws of reflection and refraction in detail.
35. Explain Fermat's principle and describe some of its applications in detail.

(2 × 15 = 30 marks)

SECOND SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2020

(CUCBCSS—UG)

Optometry

GEC 20A 06—OCULAR ANATOMY AND PHYSIOLOGY

Time : Three Hours

Maximum : 80 Marks

Section A (Very Short Answer)*Answer all questions.**Each question carries 1 mark.*

1. Write another name of "tenon's capsule".
2. Lens is peripherally attached to ciliary body with _____.
3. Hyalin membrane surrounding the lens is _____.
4. Eyelids act as _____ protecting eyes from injuries.
5. _____ are the fibres extend from the anterior hyaloid membrane to the valley b/w the ciliary processes.
6. Expand "ILM".
7. The vitreous cavity is bounded anteriorly by the Lens & ciliary body and posteriorly by the _____.
8. Zonular fibres are composed of _____.
9. IOP means _____.
10. The stromal layer of cornea is also known as _____.

(10 × 1 = 10 marks)

Section B (Short Answer)*Answer any eight questions.**Each question carries 2 marks.*

11. State Sherrington's law.
12. Define accommodation.
13. State Herring's law.
14. Which are the layers of cornea ?
15. What is collarette ?

Turn over

16. Which are the four rectii muscles ?
17. Name the four layers of iris.
18. What is ora serrata ?
19. What is cortical vitreous ?
20. What is lens capsule ?
21. What are the two main functions of ciliary body ?
22. Write about corneal transparency.

(8 × 2 = 16 marks)

Section C (Short Essay)

*Answer any six questions.
Each question carries 4 marks.*

23. Briefly explain the structure of the eye lids.
24. With a neat diagram, explain the layers of sclera.
25. Explain dark adaptation.
26. Write a note on the aqueous outflow system.
27. Write a short essay on functional divisions of retina.
28. Briefly explain the nerve supply of extraocular muscles.
29. What are lens fibres ? Explain.
30. Explain saccadic, smooth pursuit, nystagmic eye movements.
31. Write the functions of Retinal pigment epithelium (RPE).

(6 × 4 = 24 marks)

Section D (Essay)

*Answer any two questions.
Each question carries 15 marks.*

32. Explain about aqueous humour production, drainage and maintenance of intraocular pressure.
33. Explain the anatomy of extra ocular muscles.
34. Write an essay on Anatomy and physiology of Retina.
35. Explain the Ocular embryology and development of eye.

(2 × 15 = 30 marks)

SECOND SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2020

(CUCBCSS—UG)

Optometry

GEC 2AR 05—READING ARABIC PROSE AND POETRY

(2017 Admissions)

Time : Three Hours

Maximum : 80 Marks

Part A

Answer all questions.
Each question carries ½ mark.

(12 × ½ = 6 marks)

- | | |
|------------------------------|---------------------------------------|
| (جميل / جميلات / جميلة) | 1. هذه وردة |
| (على / إلى / في) | 2. نذهب الحديقة |
| (إلى / ب / على) | 3. عزم الطالب اشتراك المسابقة |
| (تبكي / تبك / يبكو) | 4. لا على اللبن المسكوب |
| (شهر / شهرا / شهور) | 5. كم تريد الإقامة |
| (تريد / تريدن / يدرس) | 6. أي دورة يا نوحاد ؟ |
| (مسافر / مسافرات / مسافرة) | 7. هو إلى مطار الرياض |
| (ماهرة / ماهر / ماهرون) | 8. هو طبيب |
| (في / على / ب) | 9. أنا أشعر ألم في رأسي |
| (تاجرا / تاجر / تجار) | 10. كان في الأندلس مشهور |
| (الخضراء / الأخضر / الخضر) | 11. من أين اشتريت هذه العمامة ؟ |
| (مدرس / مدرسون / مدرسات) | 12. فما بالك بمهارات |

Part B

Answer any ten questions.
Each question carries 2 marks.

(10 × 2 = 20 marks)

13. " غدا ... غدا .. سيزهر الليمون ** وتفرح السنابل الخضراء والزيتون " من قال هذه " ؟
14. إلى أين هاجر خليل جبران من لبنان وهو صغير ؟
15. من صاحب كتاب " طوق الحماسة " ؟
16. " إن ابنك هذا سيكون زعيما داهية وسيتبعه الناس طانعين " من قال هذا ؟

Turn over

17. " لن أكون إلا موسيقيا " من قال هذا ؟
 18. من التي لقبّت بـ " شاعرة فلسطين " ؟
 19. من يعتبر رائد المسرح العربي ؟
 20. من صاحب كتاب " النبي " ؟
 21. " أعطنا أجنحة نفتح بها أفق الصعود " من قالت هذا ؟
 22. أين ولد نزار قباني ؟
 23. من هو أحمد أمين ؟
 24. أين تقيم في هذه المدينة ؟

Part C

Answer any six questions.
 Each question carries 5 marks.

(6 × 5 = 30 marks)

25. صل بين الآتية
 فدوى طوقان : إماراتية
 د. محمد بن عبد الرحمن العريفي : سعودي
 أحمد أمين : سوري
 نزار قباني : مصري
 نجيبه محمد حسن الرفاعي : فلسطينية
26. أكتب فقرة عن خليل جبران
 27. أكمل الحوار الآتي :
 أنور : مرحبا يا شاكرا ، كيف الحال؟
 شاكرا : ، شكرا.
 أنور : ؟
 شاكرا : أنا قادم من نيودلهي ، ومن أين أنت ؟
 أنور : أنا من مومباي ، هل هذا أبوك ؟
 شاكرا :
 أنور : ماذا يعمل هناك ؟
 شاكرا : متى ترجع إلى مومباي يا أنور ؟
 أنور : شكرا
 شاكرا :

28. ترجم إلى العربية

- (1) What is your opinion ?
- (2) May I help You ?
- (3) Think before speak ?
- (4) I am very Sorry.
- (5) Arabic Language and Foreign Language.
- (6) Happy Journey.

29. اشرح :- غدا... غدا... سيزهر الليمون
وتفرح السنابل الخضراء والزيتون
30. صل بين عبارات الآتية :-
يا قدس يا مدينة الأحزان
في يدنا لك أشواق جديدة
هذا كذب، أنا لم أفعل شيئاً
إنما العلم بالتعلم ، وإنما الحلم بالتحلم
31. أكتب فقرة موجزة عن خليل جبران
32. إنك قدمتَ الطلبَ لوظيفة كاتب في شركة ، و جري بينك وبين مدير الشركة مقابلة للوظيفة حينما دعيت إليها ، أكتب ذلك الحوار ؟

Part D

Write an essay on any two of the following either in Arabic or English.

Each question carries 12 marks.

(2 × 12 = 24 marks)

33. لا تبك على الحليب المسكوب

34. القدس

35. لن ننسى

36. اللغة الأخرى

SECOND SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2020

(CUCBCSS-UG)

Optometry

GEC 2HD 05—POETRY AND SHORT STORIES

(2016 Admissions)

Time : Three Hours

Maximum : 80 Marks

I. वस्तुनिष्ठ उत्तर लिखिए : (प्रश्न संख्या 1 से 10 तक के सभी प्रश्नों के उत्तर अनिवार्य हैं।)

(क) कोष्ठकों से सही उत्तर चुनकर लिखिए :

- 1 कबीर की रचनाओं का संकलन कौन सा है ?
(गीतावली, वचनावली, बीजक, त्रिपिटक)
- 2 इनमें वात्सल्य रस के सम्राट कौन माने जाते हैं ?
(कबीर, तुलसी, सूरदास, रामानंद)
- 3 'कफन' कहानी का रचनाकार कौन है ?
(कमलेश्वर, भीष्म साहनी, प्रेमचंद, शरतचंद्र)
- 4 'मधुशाला' किसका काव्य-संग्रह है ?
(निराला, बच्चन, दिनकर, अज्ञेय)
- 5 पंत की कौन सी रचना ज्ञानपीठ पुरस्कार से सम्मानित है ?
(गुंजन, ग्रंथि, वीणा, चिदंबरा)

(ख) एक-एक शब्द में उत्तर लिखिए :

- 6 'वक्त' कविता का कवि कौन है ?
- 7 किसी एक छायावादी कवि का नाम लिखिए।
- 8 मिस्टर शामनाथ किस कहानी का पात्र है ?
- 9 'टूटा पहिया' किसकी लिखी कविता है ?
- 10 'पर्दा' कहानी का रचनाकार कौन है ?

(10 × 1 = 10 marks)

Turn over

SECOND SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2020

(CUCBCSS-UG)

Optometry

GEC 2HD 05—POETRY AND SHORT STORIES

(2016 Admissions)

Time : Three Hours

Maximum : 80 Marks

I. वस्तुनिष्ठ उत्तर लिखिए : (प्रश्न संख्या 1 से 10 तक के सभी प्रश्नों के उत्तर अनिवार्य हैं।)

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- 1 कबीर की रचनाओं का संकलन कौन सा है ?
(गीतावली, वचनावली, बीजक, त्रिपिटक)
- 2 इनमें वात्सल्य रस के सम्राट कौन माने जाते हैं ?
(कबीर, तुलसी, सूरदास, रामानंद)
- 3 'कफन' कहानी का रचनाकार कौन है ?
(कमलेश्वर, भीष्म साहनी, प्रेमचंद, शरतचंद्र)
- 4 'मधुशाला' किसका काव्य-संग्रह है ?
(निराला, बच्चन, दिनकर, अज्ञेय)
- 5 पंत की कौन सी रचना ज्ञानपीठ पुरस्कार से सम्मानित है ?
(गुंजन, ग्रंथि, वीणा, चिदंबर)

(ख) एक-एक शब्द में उत्तर लिखिए :

- 6 'वक्त' कविता का कवि कौन है ?
- 7 किसी एक छायावादी कवि का नाम लिखिए।
- 8 मिस्टर शामनाथ किस कहानी का पात्र है ?
- 9 'टूटा पहिया' किसकी लिखी कविता है ?
- 10 'पर्दा' कहानी का रचनाकार कौन है ?

(10 × 1 = 10 marks)

Turn over

II. किन्हीं दस प्रश्नों के उत्तर दो-तीन वाक्यों में लिखिए :

- 11 कबीर के विचार में निंदक को पास रखने से क्या फायदा है ?
- 12 'सदा रहति बरषा रितु हम पर, जब तैं स्याम सिधारे' इस पंक्ति का मतलब क्या है ?
- 13 विष्णु के लिए किसान क्यों प्रियतम हो गया ?
- 14 पति के घर जानेवाली ग्रामवधू से मौसी और सखियाँ क्या-क्या कहती है ?
- 15 कवि बच्चन हमें अंबर के आनन को देखने का उपदेश क्यों देते हैं ?
- 16 कवि के विचार में रथ का टूटा पहिया किससे लोहा ले सकता है ? टूटा पहिया किसका प्रतीक है ?
- 17 'वसीयत' का कवि अपनी आँखें किसको दान देना चाहता है और क्यों ?
- 18 बोलना गुनाह
ख्राँसना गुनाह
आँगन में औरतों का हँसना गुनाह - इन पंक्तियों का मतलब क्या है ?
- 19 जीवन की नश्वरता के संबंध में कबीर ने क्या विचार प्रकट किया है ?
- 20 बुधिया प्रसव पीडा से कराह रही थी तब घीसू और माधव उसकी सहायता के लिए क्यों नहीं जाते ?
- 21 चौधरी पीरबख्श ने पंजाबी खान से क्यों रूपये उधार लिए ?
- 22 बसंती गजाधर बाबू से क्यों रूठ जाती है ?

(10 × 2 = 20 marks)

III. किन्हीं चार प्रश्नों के संक्षिप्त उत्तर (150 शब्दों में) लिखिए :

- 23 'टूटा पहिया' कविता का भाव स्पष्ट कीजिए ।
- 24 सप्रसंग व्याख्या कीजिए :
गुरु गोविन्द दोऊ खड़े काके लागूँ पाँव ।
बलिहारी गुरु आपने, जिन गोविन्द दियो बताय ॥
- 25 सप्रसंग व्याख्या कीजिए :
छुरा भाँजते गुंडे छुट्टा घूम रहे हैं
और अपने ही घर की चौखट पर
बैठा आदमी
मारा जा रहा है ।
- 26 'पर्दा' कहानी के चौधरी पीरबख्श का परिचय दीजिए ।

27 सप्रसंग व्याख्या कीजिए :

कितने प्याले हिल जाते हैं

गिर मिट्टी में मिल जाते हैं

जो गिरते हैं कब उठते हैं

पर बोलो टूटे प्यालों पर

कब मदिरालय पछताता है ।

28 'चीफ की दावत' में चित्रित समस्याओं पर प्रकाश डालिए ।

(4 × 5 = 20 marks)

IV. किन्हीं दो प्रश्नों के विस्तृत उत्तर लिखिए :

29 'वापसी' कहानी का सारांश लिखकर उसकी विशेषताओं पर प्रकाश डालिए ।

30 'प्रियतम' कविता का सारांश लिखकर उसकी विशेषताओं पर विचार कीजिए ।

31 'जो बीत गयी सो बात गयी' कविता का भाव स्पष्ट कीजिए ।

(2 × 15 = 30 marks)

SECOND SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2020

(CUCBCSS-UG)

Malayalam

GEC 2ML 05—MALAYALA BHASHAYUM SAHITHYAVUM – II

(2017 Admissions)

Time : Three Hours

Maximum : 80 Marks

I. എല്ലാ ചോദ്യത്തിനും ഉത്തരമെഴുതുക. (ഓരോന്നിനും 1/2 മാർക്ക് വീതം) :

- 1 ഉമ്മാച്ചു ആരുടെ നോവലാണ് ?
- 2 നീലവെളിച്ചം എന്ന കഥയെഴുതിയതാര് ?
- 3 തിക്കോടിയന്റെ ആത്മകഥയുടെ പേരെഴുതുക.
- 4 അന്താരാഷ്ട്ര കഥാ മത്സരത്തിൽ കണ്ണുകൾ എന്ന കഥയ്ക്ക് സമ്മാനം ലഭിച്ചതാർക്ക് ?
- 5 ജീവിതപ്പാത ആരുടെ ആത്മകഥയാണ് ?
- 6 എം.ടി. എഴുതിയ ഇതിഹാസ സമാനമായ നോവലേത് ?
- 7 ബാല്യകാലസഖിയ്ക്ക് അവതാരിക എഴുതിയതാര് ?
- 8 പി.കെ. പാറക്കടവിന്റെ കഥകൾ ഏതു വിഭാഗത്തിൽ ഉൾപ്പെടുന്നു ?
- 9 തിരുത്ത് എന്ന പ്രസിദ്ധ കഥയെഴുതിയതാര് ?
- 10 പ്രതിനായകൻ ആരുടെ കവിതാസമാഹാരമാണ് ?

(10 × 1/2 = 5 marks)

II. ഒന്നോ രണ്ടോ വാക്യത്തിൽ ഉത്തരമെഴുതുക. (ഓരോന്നിനും 2 മാർക്ക് വീതം) :

- 11 യാഥാസ്ഥിതിക കുടുംബങ്ങളിൽ നിന്ന് വന്ന രാഷ്ട്രീയക്കാരെ നാട്ടുകാർ എങ്ങനെയാണ് കണ്ടത് ? ചെറുകാട് പറയുന്നതെന്ത് ?
- 12 'അതൊരു യാദൃച്ഛിക സംഭവം മാത്രമായിരുന്നു' തിക്കോടിയൻ സൂചിപ്പിക്കുന്നതെന്ത് ?
- 13 നാടകത്തിലെ നാൽക്കവല കേവലം ഒരു നാൽക്കവലയല്ല—ശരിയോ ?
- 14 'അതായിരുന്നു മജീദിന്റെ ആദ്യത്തെ പ്രാർത്ഥന' എന്തായിരുന്നു പ്രാർത്ഥന ? അങ്ങനെ പ്രാർത്ഥിക്കാൻ അവനെ പ്രേരിപ്പിച്ച സാഹചര്യം എന്തായിരുന്നു ?
- 15 'നിങ്ങൾ ആവശ്യപ്പെടുന്നതെന്തിനും നമ്മൾ വഴങ്ങാം. പക്ഷേ, ഒന്നുണ്ട്' രാച്ചിയമ്മ സൂചിപ്പിക്കുന്നതെന്ത് ?

(5 × 2 = 10 marks)

Turn over

III. നൂറ്റമ്പതു വാക്കിൽ കവിയാതെ ഏതെങ്കിലും അഞ്ച് ചോദ്യത്തിന് ഉത്തരമെഴുതുക. (ഓരോന്നിനും 5 മാർക്ക് വീതം) :

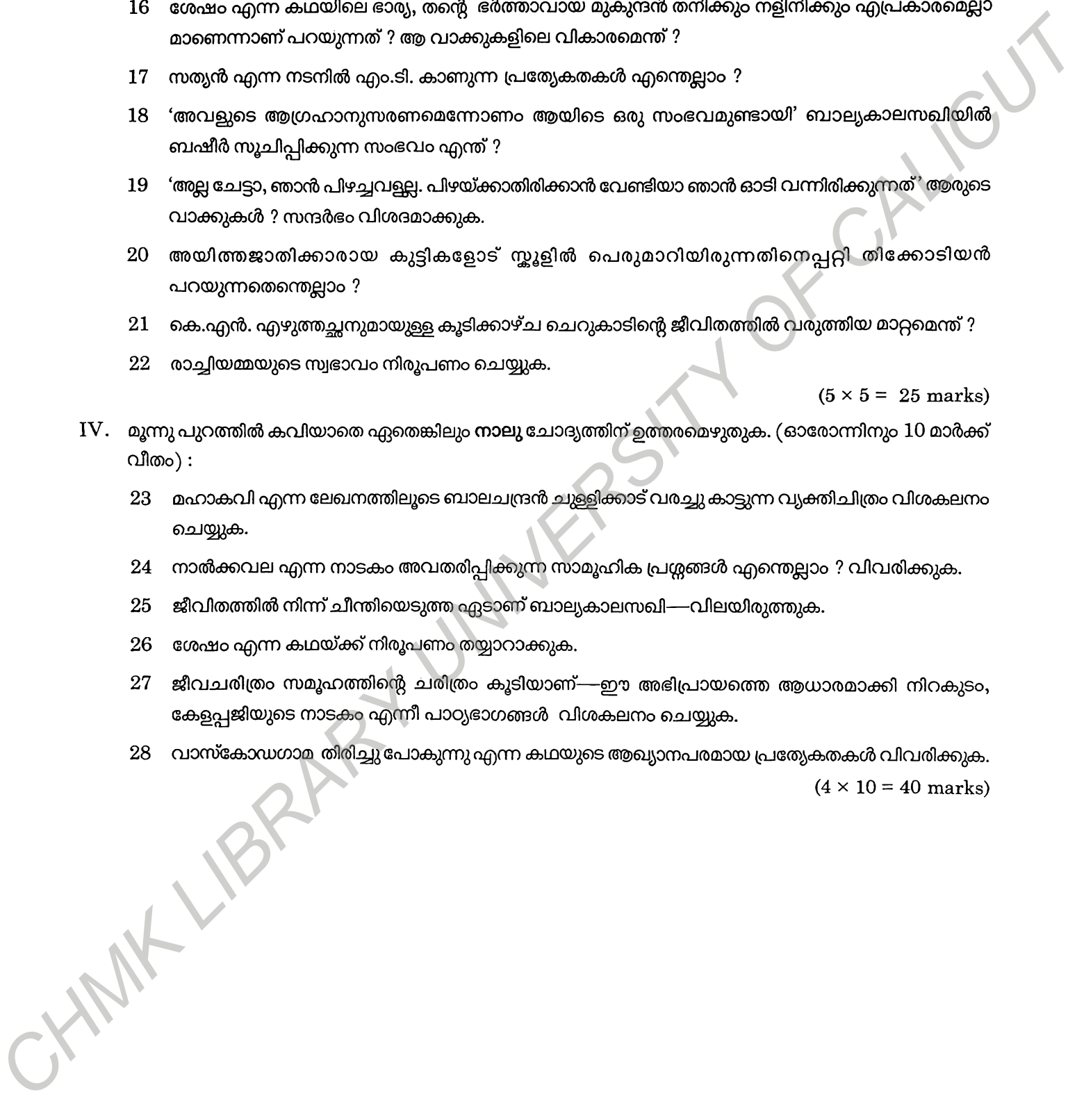
- 16 ശേഷം എന്ന കഥയിലെ ഭാര്യ, തന്റെ ഭർത്താവായ മുകുന്ദൻ തനിക്കും നളിനിക്കും എപ്രകാരമെല്ലാമാണെന്നാണ് പറയുന്നത് ? ആ വാക്കുകളിലെ വികാരമെന്ത് ?
- 17 സത്യൻ എന്ന നടനിൽ എം.ടി. കാണുന്ന പ്രത്യേകതകൾ എന്തെല്ലാം ?
- 18 'അവളുടെ ആഗ്രഹാനുസരണമെന്നോണം ആയിടെ ഒരു സംഭവമുണ്ടായി' ബാല്യകാലസഖിയിൽ ബഷീർ സൂചിപ്പിക്കുന്ന സംഭവം എന്ത് ?
- 19 'അല്ല ചേട്ടാ, ഞാൻ പിഴച്ചുവല്ല. പിഴയ്ക്കാതിരിക്കാൻ വേണ്ടിയാ ഞാൻ ഓടി വന്നിരിക്കുന്നത്' ആരുടെ വാക്കുകൾ ? സന്ദർഭം വിശദമാക്കുക.
- 20 അയിത്തജാതിക്കാരായ കുട്ടികളോട് സ്കൂളിൽ പെരുമാറിയിരുന്നതിനെപ്പറ്റി തിക്കോടിയൻ പറയുന്നതെന്തെല്ലാം ?
- 21 കെ.എൻ. എഴുത്തച്ഛനുമായുള്ള കൂടിക്കാഴ്ച ചെറുകാടിന്റെ ജീവിതത്തിൽ വരുത്തിയ മാറ്റമെന്ത് ?
- 22 രാച്ചിയമ്മയുടെ സ്വഭാവം നിരൂപണം ചെയ്യുക.

(5 × 5 = 25 marks)

IV. മൂന്നു പുറത്തിൽ കവിയാതെ ഏതെങ്കിലും നാലു ചോദ്യത്തിന് ഉത്തരമെഴുതുക. (ഓരോന്നിനും 10 മാർക്ക് വീതം) :

- 23 മഹാകവി എന്ന ലേഖനത്തിലൂടെ ബാലചന്ദ്രൻ ചുള്ളിക്കാട് വരച്ചു കാട്ടുന്ന വൃക്കിചിത്രം വിശകലനം ചെയ്യുക.
- 24 നാൽക്കവല എന്ന നാടകം അവതരിപ്പിക്കുന്ന സാമൂഹിക പ്രശ്നങ്ങൾ എന്തെല്ലാം ? വിവരിക്കുക.
- 25 ജീവിതത്തിൽ നിന്ന് ചിന്തിയെടുത്ത ഏടാണ് ബാല്യകാലസഖി—വിലയിരുത്തുക.
- 26 ശേഷം എന്ന കഥയ്ക്ക് നിരൂപണം തയ്യാറാക്കുക.
- 27 ജീവചരിത്രം സമൂഹത്തിന്റെ ചരിത്രം കൂടിയാണ്—ഈ അഭിപ്രായത്തെ ആധാരമാക്കി നിറകൂടം, കേളപ്പജിയുടെ നാടകം എന്നീ പാഠ്യഭാഗങ്ങൾ വിശകലനം ചെയ്യുക.
- 28 വാസ്കോഡഗാമ തിരിച്ചു പോകുന്നു എന്ന കഥയുടെ ആഖ്യാനപരമായ പ്രത്യേകതകൾ വിവരിക്കുക.

(4 × 10 = 40 marks)



SECOND SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2020

(CUCBCSS—UG)

English

GEC 2EG 04—WAYS WITH WORDS LITERATURE IN ENGLISH

(2017 Admissions)

Time : Three Hours

Maximum : 80 Marks

I. A. Choose the correct answer from the options :

- 1 Who toddled around the empty house in the poem "The house of my childhood" ?
(a) Poet. (b) Grandmother.
(c) child. (d) father.
- 2 When Old folks laugh, what are they actually doing ?
(a) They free the world. (b) They make fun of the world.
(c) They enjoy the world. (d) None of these.
- 3 The weapon used for killing Mr. Maloney was :
(a) The fried leg of lamb. (b) The frozen leg of the lamb.
(c) The boiled leg of the lamb. (d) The dried leg of the lamb.
- 4 What is Bob Dylan's nationality ?
(a) American. (b) British.
(c) Canadian. (d) Asian.
- 5 Mum's new car was a _____.
(a) Packard. (b) Chevrolet.
(c) Buick. (d) De soto.

(5 × 1 = 5 marks)

B. Answer *all* the following questions in a word *or* a phrase :

- 6 Why do the bees "think warm days will never cease" ?
- 7 What is the name of the society club in 'Something Unspoken' ?

Turn over

- 8 Shakespearean sonnet is also called _____.
- 9 Euthanasia is a term which means _____.
- 10 Harry Houdini was an American _____.

(5 × 1 = 5 marks)

II. Answer any *ten* from the following in one or two sentences :

- 11 Who is called the bosom friend of maturing sun ?
- 12 Why does Dilip Chitre invoke the seasons of spring and summer ?
- 13 Why are the old folks able to forgive life ?
- 14 How do the images of 'grindstone' and 'brass figurines' conjure up the world of the grandmother ?
- 15 Why does Bob Dylan say that the present now will later be past ?
- 16 What do you think is the theme of 'Appointment in Samarra' ?
- 17 What is the context of the song "The Times They are A- Changin" ?
- 18 Why did the servant flee to Samarra ?
- 19 Why do you think that the story has been titled as 'A Shocking Accident' ?
- 20 Why according to Lucas are bores happy ?
- 21 What can be the reasons for strange light in the sky, according to Sagan ?
- 22 Who is the "dark horse" mentioned in the play ?

(10 × 2 = 20 marks)

III. Answer any *four* of the following questions in a paragraph :

- 23 Why does Maya Angelou calls death "dear and painless" ?
- 24 Comment on the theme of the poem 'Once Upon A Time'.
- 25 Autobiographical elements in the poem 'The House of My Childhood'.
- 26 What picture of the mother do you get at the end of the story 'It Used to Be Green Once'?
- 27 Comment on Keats's treatment of nature.
- 28 Explain the symbolism of the pig in 'A Shocking Accident'.

(4 × 5 = 20 marks)

IV. Answer any *two* of the following in an essays :

- 29 Describe Jerome's inner conflicts about his father's death and his attempts to overcome them ?
- 30 Write an essay on EV Lucas as an observer of life in the light of Bores.
- 31 Discuss the laughter as a metaphor for freedom in "Old Folks Laugh".
- 32 Write an essay on the significance of the title "Lamb to the Slaughter".

(2 × 15 = 30 marks)

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**SECOND SEMESTER B.VOC. DEGREE EXAMINATION
APRIL 2021**

Professional Accounting and Taxation
SDC 2PT 06—COST ACCOUNTING

Time : Three Hours

Maximum : 80 Marks

Part I

*Answer all ten questions.
Each question carries 1 mark.*

Choose the correct answer :

1. Which of the following is a technique of Costing ?
 - a) Job Costing.
 - b) Batch Costing.
 - c) Contract Costing.
 - d) Standard Costing.
2. The method costing suitable to a transport company is _____ costing.
 - a) Operating.
 - b) Process.
 - c) Job.
 - d) None of these.
3. Salary of warehouse staff is an item of _____ Overhead.
 - a) Production.
 - b) Distribution.
 - c) Administration.
 - d) Selling.
4. Profit disclosed by an incomplete contract is termed as :
 - a) Real Profit.
 - b) Nominal Profit.
 - c) Notional Profit.
 - d) None of these.
5. Output of last process is transferred to :
 - a) Trading account.
 - b) Costing P/L account.
 - c) Finished stock account.
 - d) WIP Account.

Fill in the blanks :

6. A budget prepared for different levels of activity is known as _____.
7. _____ refers to any kind of material loss which has no recoverable value.
8. Canteen expenses are apportioned on the basis of _____.
9. In Job costing profit is ascertained by preparing _____.
10. Retention money is the difference between work certified and _____.

(10 × 1 = 10 marks)

Turn over

Part II

Answer any eight in two or three sentences.

Each question carries 2 marks.

11. Define machine-hour-rate ?
12. What is job costing ?
13. What is Cost Centre ?
14. What is EOQ ?
15. What is Work uncertified ?
16. Define Standard costing.
17. What do you mean by Abnormal Loss ?
18. What is time booking ?
19. What is cost plus contract ?
20. What do you mean by Master budget ?
21. What is cost allocation ?
22. What is bincard ?

(8 × 2 = 16 marks)

Part III

Answer any six of the following.

Each question carries 4 marks.

23. Explain ABC Analysis of material control.
24. What are the duties of a store keeper ?
25. State the main difference between Cost accounting and Financial accounting.
26. Distinguish between Job costing and Process costing.
27. From the following information relating to the month of January 2020, prepare a Cost Sheet :

	Rs.
Direct Material consumed	20,000
Direct wages paid	15,000
Direct Expenses	5,000
Factory overheads	8,000
Selling and distribution overheads	4,000

1,000 units were produced during the period.

28. From the following information calculate total kilometers and total passenger kilometers :

No. of Buses	6
Days operated in the month	25
Trip made by each bus	4
Distance of route	25 kms (one side)
Capacity of Bus	50 passengers
Normal passengers travelling	80 % of capacity

29. Following are the budgeted expenses for the production of 10,000 units of a product :

	Per Unit
Material	75
Labour	15
Variable overhead	20
Fixed overhead (1,00,000)	10
Direct Expenses (Variable)	10
Selling expenses (10% Fixed)	12
Distribution Expenses (20% Fixed)	8
Administration Expenses (Rs. 60,000)	6
	156

Prepare a budget for 8,000 units. Administration expenses are fixed for all levels of production.

30. Calculate EOQ from the following information :

Annual consumption	10,000 kg.
Cost of placing an order	Rs. 50
Cost per kg. of material	Rs. 2
Storage cost	8 % on average inventory.

31. Calculate the total earnings and the earnings per hour of two workers A and B under the Halsey and Rowan scheme :

Standard Time	20 hours
Time rate	: Rs. 20 Per hour
Time taken	:
A	16 hours
B	10 Hours

(6 × 4 = 24 marks)

Turn over

Part IV

Answer any **two** of the following.

Each question carries 15 marks.

32. Define Costing. What are the different methods and techniques of costing ?
33. Define budgetary control. What are the steps involved in budgeting and budgetary control ?
34. A firm of building contractors began to trade on April 2020. The following was the expenditure on a contract for Rs. 3,00,000 :

Materials issued to contract Rs. 51,000

Plant used for contract Rs. 15,000

Wages incurred Rs. 81,000

Other expenses incurred Rs. 5,000

Cash received on account to 31st March 2021 amounted to Rs. 1,28,000 being 80% of work certified. Of the plant and materials charged to the contract, plant which cost Rs. 3,000 and materials which cost Rs. 2,500 were lost. On 31st March 2021 plant which cost Rs. 2,000 was returned to store.

The cost of work done but uncertified was Rs. 1,000 and materials costing Rs. 2,300 were in hand on site. Charge 15% depreciation on plant.

Prepare a Contract account and Contractee's account.

35. Product X is obtained after passing through 3 distinct processes. You are required to prepare process accounts from the following information :

	Total	Processes		
	Rs.	I. Rs.	II. Rs.	III. Rs.
Materials	15,084	5,200	3,960	5,924
Direct Wages	18,000	4,000	6,000	8,000
Production overheads	18,000			

1,000 units at Rs. 6 per unit were introduced in process I. Production overhead to be distributed as 100% on direct wages.

Process	Actual out put	Normal loss	Value of Scrap
I	950	5%	4
II	840	10%	8
III	750	15%	10

(2 × 15 = 30 marks)

SECOND SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

Professional Accounting and Taxation

SDC 2PT 05—DIRECT TAXATION—I

Time : Three Hours

Maximum : 80 Marks

Part I

Answer all ten questions.
Each question carries 1 mark.

Choose the correct answer :

1. Agricultural income in Pakistan is assessable for _____.
 - a) Resident.
 - b) Not ordinarily Resident.
 - c) Non-resident.
 - d) Not taxable.
2. Death-cum retirement gratuity received by the Government Employee is _____.
 - a) Partially taxable.
 - b) Fully exempted.
 - c) Fully taxable.
 - d) Half taxable.
3. If the capital asset is held for more than _____ months, then the gain arising out of that is a long term capital gain.
 - a) 10 months.
 - b) 48 months.
 - c) 42 months.
 - d) 36 months.
4. Under Income Tax Act, 1961, depreciation on machinery is charged on _____.
 - a) Purchase price of Machinery.
 - b) Written Value of the machinery.
 - c) Market Price of the machinery.
 - d) None of the above.
5. While calculating Income from House Property, the basis of charge is the _____ of property.
 - a) Annual Value.
 - b) Market Value.
 - c) Municipal Value.
 - d) Half yearly value.

Fill in the blanks :

6. Long term Capital gain is taxed at the rate of _____.
7. Maximum Marginal Rate is _____ Percentage.
8. Interest credited in Recognised Provident Fund account is exempt up to _____.
9. Cost Inflation Index number for the Previous Year 2020-21 is _____.
10. Deduction in respect of Interest on loan taken for construction of self occupied house is limited to Rs. _____.

(10 × 1 = 10)

Turn over

Part II

*Answer any eight in two or three sentences.
Each question carries 2 marks.*

11. What is an assessment year ?
12. Who is deemed assessee ?
13. What do you mean by Statutory Provident Fund ?
14. What is transferred balance ?
15. What is Gross Annual Value ?
16. What is HRA ?
17. Define perquisites.
18. What is meant by block of assets ?
19. What is unabsorbed depreciation ?
20. What do you mean by capital asset ?
21. What is unrealized rent ?
22. What are tax free commercial securities ?

(8 × 2 = 16)

Part III

*Answer any six of the following.
Each question carries 4 marks.*

23. What do mean by Allowances ? Explain fully taxable allowances.
24. Which are the transactions not considered as transfer.
25. Explain the provisions regarding Residential status of Individual.
26. Explain the procedure of valuation of rent-free accommodation.
27. Mr. X a German national, is appointed in India as a senior scientific officer on 1-4-2017. On January 31, 2018 he went to Iran on deputation for a period of three years but left his wife and children in India. On May, 2019, he came to India and taken his family with him on June 30, 2019. He returned to India and joins his original job on 2nd February, 2021. Determine his residential status for the Assessment Year 2021- 22.
28. Mr. Ravikumar owns a house ac Agra which he acquired in May 2009 for Rs 2,96,000. He sells the house for Rs. 35,00,000 on 18th August 2020. He purchases a residential house at Kanpur on 14th February 2021 for Rs 20,00,000. Find out the amount of capital gains chargeable to tax for the Assessment Year 2021-22.

The cost inflation index in 2009-10 and 2020-21 are 148 and 301 respectively.

29. From the following information determine the annual value of the house :

	Rs.
Municipal Value	– 80,000
Fair Rent	– 1,20,000
Standard Rent	– 1,00,000
Municipal tax paid by the owner	– 10,000

The house was self-occupied for four months and then let-out for :

- a) Rs. 10,000 per month.
- b) Rs. 15,000 per month.

30. Mr. Kiran of Tamil Nadu is employed in Mumbai. He resides in a house paying a rent of Rs. 4,000 per month. His salary consists of :

	Rs.
Basic pay	– 12,000 pm
Dearness allowance	– 4,000 pm
HRA at Rs. 5,500 pm.	

Compute the taxable HRA.

31. From the following information compute income from other sources :

- 1 Rs. 1,00,000 received by the assessee from his friends on the occasion of the marriage of his son.
- 2 Interest received Rs. 20,000.
- 3 Dividend Received Rs. 2,00,000.
- 4 Winning from lottery Rs. 70,000 (Net).
- 5 Interest on post office Savings Bank A/c Rs 4,000.

(6 × 4 = 24)

Part D

*Answer any two of the following.
Each question carries 15 marks.*

32. Briefly explain the exemptions available u/s 54 from capital gains.
33. Enumerate any fifteen items of Income which are exempt from tax.
34. Smt. Sheela is drawing a monthly salary of Rs. 20,000 and entertainment allowance of Rs. 3,500 per month from a Ltd. Co. She is also getting conveyance allowance of Rs. 1,200 per month, a bonus equal to two months salary and commission equal to one month's pay. During the previous year, she paid 2,000 as Employment Tax.

She is provided with a rent-free furnished house by the company at Jaipur. The company paying Rs. 90,000 p.a. as the rent of this house and Rs. 8,700 p.a. for furniture and fittings. The electric and water charges amounting to Rs. 18,000 are also borne by the company in respect of this house.

She is also provided with lunch by the company during working hours at work place. The cost of which is Rs.80 per meal for 300 days during the Previous Year. The company recovered 20 per meal from her.

From the above information calculate Smt. Sheela's taxable income from salary for the Assessment Year 2021-22.

Turn over

35. From the following P and L a/c of Mrs. Asha Jain, ascertain taxable profit :

Profit and Loss a/c for the year ended 31.03.2021

Salaries	14,800	Gross profit	... 1,25,000
General expenses	12,500	Miscellaneous receipts	2,000
Bad debts reserve	3,000	Commission earned	4,000
Income Tax	1,500	Interest on government securities	3,000
Gifts and presents	2,000	Dividend from Indian company	10,000
Life insurance premium	1,300		
Fire insurance premium	1,000		
(shop)			
Commission paid	15,000		
Audit fee	2,750		
Interest on capital	4,500		
Discounts allowed	6,000		
Trade expenses	24,500		
Net profit	... 55,100		
	<u>1,44,000</u>		<u>1,44,000</u>

Depreciation allowance eligible to the business Rs. 6,500. General expenses include Rs. 4,000 being the cost of a table purchased for domestic use. Commission was paid in cash.

(2 × 15 = 30)

SECOND SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

Automobile Auto Electricals and Electronics

GEC 2MT 06—MATHEMATICS

Time : Three Hours

Maximum : 80 Marks

Part A (Objective Type Questions)

*Answer all questions.**Each question carries 1 mark.*

1. Write $\cosh x$ in terms of exponential function.
2. What is the volume of the solid generated by revolving about the x -axis the region between the x -axis and the graph of the continuous function $y = R(x)$, $a \leq x \leq b$.
3. Write the formula for n th term of the sequence $1, -\frac{1}{2}, \frac{1}{3}, -\frac{1}{4}, \dots$
4. Define non-decreasing sequence.
5. Evaluate $\lim_{n \rightarrow \infty} \left(\frac{n-1}{n} \right)$.
6. State the absolute convergence test for series.
7. Find the radius of convergence of the series $\sum_{n=0}^{\infty} x^n$.
8. Write the Cartesian equivalent of the polar equation $r^2 \cos \theta \sin \theta = 4$.
9. Write the polar equation of the ellipse with eccentricity e and semimajor axis a .
10. Evaluate $f(x, y, z) = \sqrt{x^2 + y^2 + z^2}$ at the point $(3, 0, 4)$.

Turn over

11. Find $\partial f/\partial x$ and $\partial f/\partial y$, given $f(x, y) = 2x^2 - 3y - 4$.
12. State the chain rule for functions of two independent variables.

(12 × 1 = 12 marks)

Part B (Short Answer Type)

Answer any **nine** questions.

Each question carries 2 marks.

13. Evaluate $\int \coth 5x dx$.
14. Evaluate the improper integral $\int_0^4 \frac{dx}{\sqrt{4-x}}$.
15. Show that $\sqrt{(n+1)/n} \rightarrow 1$.
16. Prove that the series $\sum_{n=1}^{\infty} n^2$ diverges.
17. Test for convergence the series $\sum_{n=1}^{\infty} (-1)^{n+1} \frac{1}{n^2}$.
18. For what values of x do the power series $\sum_{n=1}^{\infty} (-1)^{n-1} \frac{x^n}{n} = x - \frac{x^2}{2} + \frac{x^3}{3} - \dots$ converge.
19. Find a polar equation for the circle $x^2 + (y-3)^2 = 9$.
20. Find the polar equation for the hyperbola with eccentricity $3/2$ and directrix $x = 2$.
21. Find the area of the regions bounded by the spiral $r = \theta$ for $0 \leq \theta \leq \pi$.
22. Find an equation for the circular cylinder $4x^2 + 4y^2 = 9$ in cylindrical co-ordinates.

23. The plane $x = 1$ intersects the paraboloid $z = x^2 + y^2$ in a parabola. Find the slope of the tangent to the parabola at $(1, 2, 5)$.
24. Use the Chain Rule to find the derivative of $w = xy$ with respect to t along the path $x = \cos t$, $y = \sin t$.

(9 × 2 = 18 marks)

Part C (Short Essay Type)*Answer any six questions.**Each question carries 5 marks.*

25. Derive the formula $\sin^{-1}x = \ln(x + \sqrt{x^2 + 1})$ for all real x .
26. Find the volume of the solid generated by revolving the region bounded by $y = \sqrt{x}$ and the lines $y = 1$, $x = 4$ about the line $y = 1$.
27. Find the lateral surface area of the cone generated by revolving the line segment $y = x/2$, $0 \leq x \leq 4$, about the y -axis.
28. A ball is dropped from a meters above a flat surface. Each time the ball hits the surface after falling a distance h , it rebounds a distance rh , where r is positive but less than 1. Find the total distance the ball travels up and down.
29. Investigate the convergence of the series $\sum_{n=1}^{\infty} \frac{4^n n! n!}{(2n)!}$.
30. For the series $\sum_{n=0}^{\infty} (x + 5)^n$.
- Find the radius and interval of convergence.
 - For what values of x does the series converge absolutely?
 - For what values of x does the series converge conditionally?

Turn over

31. Find the Taylor series generated by $f(x) = 1/x$ at $a = 2$. Where, if anywhere, does the series converge to $1/x$?
32. Find the area of the region that lies inside the circle $r = 1$ and outside the cardioid $r = 1 - \cos\theta$.
33. Show that :

$$f(x, y) = \begin{cases} \frac{2xy}{x^2 + y^2}, & (x, y) \neq (0, 0) \\ 0, & (x, y) = (0, 0) \end{cases}$$

is continuous at every point except the origin.

(6 × 5 = 30 marks)

Part D (Essay Type)

Answer any two questions.

Each question carries 10 marks.

34. (a) Evaluate $\int_{-\infty}^{-2} \frac{2dx}{x^2 - 1}$. (5 marks)
- (b) Find the area of the region that lies between the curves $y = \sec x$ and $y = \tan x$ from $x = 0$ to $x = \pi/2$. (5 marks)
35. (a) Test for convergence the series $\sum_{n=1}^{\infty} \frac{1 \cdot 3 \cdot \dots \cdot (2n-1)}{[2 \cdot 4 \cdot \dots \cdot (2n)](3^n + 1)}$. (6 marks)
- (b) Prove the series $\sum_{n=1}^{\infty} \frac{2n}{n^2}$ diverges. (4 marks)
36. Find the linearization $L(x, y, z)$ of $f(x, y, z) = x^2 - xy + 3 \sin z$ at the point $(x_0, y_0, z_0) = (2, 1, 0)$. Find an upper bound for the error incurred in replacing f by L on the rectangle R : $|x - 2| \leq 0.01, |y - 1| \leq 0.02, |z| \leq 0.01$.

(10 marks)

[2 × 10 = 20 marks]

SECOND SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

Tourism and Hospitality Management
SDC 2EM 22—EVENT MANAGEMENT
(2018 Admissions)

Time : Three Hours

Maximum : 80 Marks

Part A*Answer all questions.**Each question carries 1 mark.*

1. Expand ICCA.
2. Expand WTM.
3. Expand TTW.
4. Who is a Tourist ?
5. Expand ITDC.
6. Expand NTO.
7. Expand LTC.
8. Expand IMTM.
9. Name any international trade fair in India.
10. Name any element of an event.

(10 × 1 = 10 marks)

Part B*Answer any eight questions.**Each question carries 2 marks.*

11. What is a hallmark event ?
12. What is incentive tour ?
13. Write a short note on World Travel Mart.
14. What is Budgeting ?
15. What is Dark Tourism ?

Turn over

16. What is Domestic Convention ?
17. Write a short note on ICCA.
18. What do you understand by Event Management ?
19. What is Symposium ?
20. What is leisure related incentive travel ?
21. Write a note on desert festival in India.
22. Define Entrepreneurship.

(8 × 2 = 16 marks)

Part C

*Answer any six questions.
Each question carries 4 marks.*

23. Write a short essay on types of events.
24. Write a short essay on categories of Business Travel.
25. What are the essential qualities of an Event Manager ?
26. Briefly explain the steps required for event success.
27. Write an essay in various International tourism fairs.
28. Write an essay on KTM and its role in the promotion of Kerala Tourism.
29. Briefly explain the role of ICPB in promoting tourism in India.
30. Give a brief note on trade shows.
31. Write the importance of Press-Conferences in Launch Marketing Campains.

(6 × 4 = 24 marks)

Part D

*Answer any two questions.
Each question carries 15 marks.*

32. Give an elaborate note on networking events.
33. Write the attributes of an Event Managers.
34. Elaborate the features of Event Management.
35. What are the essential criteria for brand building ?

(2 × 15 = 30 marks)

SECOND SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

Tourism and Hospitality Management

SDC 2FA 21—FINANCIAL ACCOUNTING

(2018 Admissions)

Time : Three Hours

Maximum : 80 Marks

Part A*Answer all questions.**Each question carries 1 mark.*

1. The Rule for Real Account is _____ ?
2. In the purchase Book only _____ purchases are Recorded.
3. Customs duty is to be debited to _____ account while preparing final account.
4. The differences between assets and liabilities is known as _____.
5. Income Received in advance is a _____ account.
6. Accounting is the language of _____.
7. In case of Bill of Exchange there are _____ parties.
8. Sale of an asset is an example of _____ receipt.
9. The same amount of depreciation is charged every year under _____ method.
10. Profit on sale of fixed asset is a _____ Reserve.

(10 × 1 = 10 marks)

Part B*Answer any eight questions.**Each question carries 2 marks.*

11. Define Accounting.
12. What is purchase book ?

Turn over

13. What is sales book ?
14. What is depreciation ?
15. What is monetary unit assumption ?
16. What is going concern principle ?
17. What is accrual basis of accounting ?
18. What is window dressing ?
19. What is real account ?
20. Define the term Final Accounts.
21. Define Cash Book.
22. Define Financial Accounting.

(8 × 2 = 16 marks)

Part C

*Answer any six questions.
Each question carries 4 marks.*

23. What are the objectives of financial accounting ?
24. What do you mean by current assets ? Explain with suitable examples.
25. Briefly explain the terms Asset Liabilities, Capital, Revenue.
26. Write an essay on role of computers in accounting.
27. Difference between balance sheet and P/L account.
28. What are the Limitations of accounting standards ?
29. Explain the term Balance Sheet. Why it is prepared ?
30. What are pre-paid Expenses ? Give example.
31. What are the methods of Balancing a ledger account ?

(6 × 4 = 24 marks)

Part D

*Answer any two questions.
Each question carries 15 marks.*

32. Find out debit and credit in each of the following transactions :
- a) Madhu commenced a business with cash 5,00,000.
 - b) Bought goods for cash 50,000.
 - c) Bought furniture 1,00,000.
 - d) Deposited into bank 2,00,000.
 - e) Rent paid 15,000.
 - f) Purchased machinery 5,000.
33. Explain the uses and limitations of balance sheet ?
34. Explain the conventions in detail.
35. Explain the Accounting concept in detail.

(2 × 15 = 30 marks)

SECOND SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

Tourism and Hospitality Management

SDC 2TO 20—TRAVEL AGENCY AND TOUR OPERATION MANAGEMENT

(2018 Admissions)

Time : Three Hours

Maximum : 80 Marks

Part A*Answer all questions.**Each question carries 1 mark.*

1. Who is known as Father of Travel Agency ?
2. Expand WTTC.
3. Expand IATA.
4. Expand KTM.
5. Name of The First Travel Agency in The World.
6. Name the currency of Russia.
7. Name The Capital City of Japan.
8. What is GIS ?
9. Expand GSA.
10. Name any online Travel Portal.

(10 × 1 = 10 marks)

Part B*Answer any eight questions.**Each question carries 2 marks.*

11. Define Travel Agency.
12. What is an outbound Tour ?
13. What is MICE Tour ?
14. Define Package Tour.
15. What is Pass Port ?
16. Define Itinerary.

Turn over

17. Who is a Ground operator ?
18. What is a Cruise ?
19. What is e-visa ?
20. What is BSP ?
21. What do you understand by a hosted Package Tour ?
22. Who is a Transit Traveller ?

(8 × 2 = 16 marks)

Part C

*Answer any six questions.
Each question carries 4 marks.*

23. Discuss The Emergence of Travel Agency Business.
24. Write a short essay on IATA Approval of a Travel Agency.
25. Explain the different types of Visas.
26. Write a short note on CRS.
27. Prepare a 3 days Itinerary for a group of 15 people visiting Golden Triangle.
28. Discuss the merits and demerits of package tour.
29. What are the client handing guidelines of a travel agent ?
30. Brief the organisational structure of a Travel Agency.
31. Write the Role of Tour Operator in the promotion of Tourism.

(6 × 4 = 24 marks)

Part D

*Answer any two questions.
Each question carries 15 marks.*

32. Write an essay on History of Travel Agency.
33. Prepare a 5 Day Itinerary for a North Indian Couple to Visit Kerala.
34. Write an essay on different types of Itineraries.
35. List out The threats of Travel Agency Business.

(2 × 15 = 30 marks)

SECOND SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

Tourism and Hospitality Management

GEC 2PP 06—TOURISM PRINCIPLES AND PRACTICES

(2018 Admissions)

Time : Three Hours

Maximum : 80 Marks

Part A*Answer all questions.**Each question carries 1 mark.*

1. Name of The Secretary General of WTO.
2. What is SEZ ?
3. Name the First State in India which recognized Tourism as an Industry.
4. Name the First Tourism Village in Kerala.
5. What is VFR ?
6. Name any economic positive impact of Tourism.
7. Expand ITDC.
8. What is TIM ?
9. In which year Sargent Committee was appointed.
10. Expand BOP ?

(10 × 1 = 10 marks)

Part B*Answer any eight questions.**Each question carries 2 marks.*

11. Define Carrying Capacity.
12. What is Cultural Carrying Capacity ?
13. What is Territorial Tourism Planning ?
14. Write a short note on NTO.

Turn over

15. Write short note on Sargent Committee.
16. What is a Tourist destination ?
17. Write a short note on IITM.
18. What is Visitor Management ?
19. Define Heritage Tourism.
20. Define Traditional Tourism.
21. Define Natural Environment.
22. Define Cultural Itinerary.

(8 × 2 = 16 marks)

Part C

Answer any six questions.

Each question carries 4 marks.

23. Write a short essay on Sustainable Tourism and its importance in present scenario.
24. Write a short essay on responsible tourism and its contributions on economic development and sustainability.
25. Discuss about the factors affecting tourism demand.
26. What are the essential facilities needed for inbound tourism.
27. Briefly explain the methods to improve carrying capacity of a Destination.
28. Briefly discuss the socio-cultural impacts of tourism.
29. What would be the negative impacts from tourism-occur when the level of visitor use is greater than the environment ability ?
30. Eco Tourism is a form of tourism involving visiting fragile-Explain.
31. Tourism provides the economic stimulus to allow for diversification of employment and income potential-Explain.

(6 × 4 = 24 marks)

Part D

*Answer any two questions.
Each question carries 15 marks.*

32. Write an essay on different types of carrying capacity.
33. Write an essay on Five Year Plan and Tourism.
34. Write an essay on Negative impacts of Tourism.
35. Write an essay on Warsaw Convention 1924.

(2 × 15 = 30 marks)

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SECOND SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

Software Development

SDC 2IT 06—PROGRAMMING IN JAVA

Time : Three Hours

Maximum : 80 Marks

Part A

*Answer all questions.**Each question carries 1 mark.*

1. Java programs have to be saved with the following extension :
(A) .java. (B) .txt.
(C) .doc. (D) .xls.
2. Non-primitive data types are simply called as _____.
3. A *catch* clause cannot exist without a _____ statement.
4. Process of storing the object contain into the file is known as _____.
(A) Synchronization. (B) Serialization.
(C) Zip. (D) Doping.
5. All exception types are subclasses of the built-in class :
(A) Throw. (B) Throws.
(C) Throwable. (D) None of the above.
6. Applets are created by extending _____ class.
(A) Event class. (B) Applet class.
(C) Exception class. (D) All of the above.
7. Which interface provides methods to execute queries with the database ?
(A) Connection interface. (B) Statement interface.
(C) ResultSet interface. (D) None of the above.

Turn over

8. Which classes are used for connection-oriented socket programming ?
- (A) Socket. (B) Server Socket.
(C) Both (A) and (B). (D) None of the above.
9. Say True or False : Parameters can be passed to applets.
10. Say True or False : One or more classes can implement an interface.

(10 × 1 = 10 marks)

Part B

Answer any **eight** questions.
Each question carries 2 marks.

11. What is Encapsulation ?
12. What is Byte Code ? Why Java's intermediary Code is called Byte Code ?
13. What is JVM ?
14. What is default and parameterized constructor ?
15. What are disadvantages of using inner classes ?
16. What is Serialization ?
17. Explain *finally* block.
18. List out thread properties.
19. Explain *paint()* and *repaint()* method of Graphics.
20. What is the difference between throw and throws ?
21. What are the differences between Swing and AWT ?
22. What is JDBC Statement ?

(8 × 2 = 16 marks)

Part C

Answer any **six** questions:
Each question carries 4 marks.

23. Write a java program to find the transpose of a matrix.
24. Explain data type conversion and casting feature of java with an example.

25. What is meant by method over-riding ? Explain with a suitable example.
26. What is meant by package statement ? How does it important ?
27. What is a Thread ? How is it different from process ? How threads can be created in java ?
28. Explain stream classes.
29. What are the two types of Exceptions in Java ? Which are the differences between them ?
30. Explain the life cycle of applet.
31. Explain JDBC drivers.

(6 × 4 = 24 marks)

Part D

*Answer any two questions.
Each question carries 15 marks.*

32. Explain different looping constructs in java.
33. Differentiate between method overloading and over-riding with example.
34. Write a java program for string concatenation, string conversion and string comparison.
35. Explain JDBC and its architecture in detail with diagram.

(2 × 15 = 30 marks)

SECOND SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

Software Development

SDC 2IT 05—DATA STRUCTURES

Time : Three Hours

Maximum : 80 Marks

Part A

*Answer all questions.**Each question carries 1 mark.*

1. A linear collection of data element given by mean of pointer is called _____.
- A) Stack. B) Linked list.
C) Heap. D) Queue.
2. Linked lists are best suited _____.
- A) For relatively permanent collections of data.
B) For the size of the structure and the data in the structure are constantly changing.
C) For both of the above situation.
D) For none of the above situation.
3. Which of the following is true ?
- A) Stack : FIFO ; Queue : FIFO. B) Stack : FIFO ; Queue : LIFO.
C) Stack : LIFO ; Queue : FIFO. D) Stack : LIFO ; Queue : LIFO.
4. Convert the following preorder expression into inorder $++ x y * z w :$
- A) $x + y + z * w.$ B) $w + x + y * z.$
C) $x + y * z + w.$ D) $w * z + y + x.$
5. In Binary trees, nodes with no successor are called _____.
- A) End nodes. B) Terminal nodes.
C) Final nodes. D) Last nodes.

Turn over

6. A binary tree with each node has exactly two children or no children are called _____.
- A) Strict binary tree. B) Complete binary tree.
C) Full binary tree. D) Cyclic binary tree.
7. Which data structure is used in depth first search of a graph ?
- A) Stack. B) Queue.
C) Tree. D) Array.
8. A connected graph T without any cycles is called a _____.
- A) A tree graph. B) Free tree.
C) A tree. D) All of the above.
9. Direct chaining is also known as _____.
- A) Linear probing. B) Quadratic probing.
C) Double hashing. D) Separate chaining.
10. Which of the following is true ?
- A) Hashing is a technique used for sorting information as fast as possible.
B) Hashing is a technique used for storing and retrieving information as fast as possible.
C) Hashing is a technique used for searching elements in an array as fast as possible.
D) None of the above.

(10 × 1 = 10 marks)

Part B

*Answer any eight questions.
Each question carries 2 marks.*

11. What is data structure ?
12. Differentiate 1D array and 2D array.
13. What is meant by Linked list ?
14. What do you mean by Dequeue ?
15. Explain any two applications of stack with example.

16. What is BST ?
17. What do you mean by in order traversal ?
18. Write a note on tree traversals.
19. Compare directed and undirected graph.
20. Define minimum spanning tree.
21. What is a hash function ?
22. What do you mean by double hashing ?

(8 × 2 = 16 marks)

Part C

Answer any six questions.

Each question carries 4 marks.

23. How do we insert a node at the end of a singly linked list ?
24. How do we implement queue using linked list ?
25. What are the applications of Stack ? Explain.
26. Briefly explain the concept of binary search tree.
27. Define an AVL Tree. Write an algorithm for insertion an AVL tree along with an example.
28. Give mode of operation in Dijkstra's algorithm.
29. Briefly explain the graph traversals.
30. Explain the algorithm for insertion sort and give a suitable example.
31. What are the characteristics of a good hash function ? Explain.

(6 × 4 = 24 marks)

Part D

Answer any two questions.

Each question carries 15 marks.

32. Explain different types of Arrays in detail.
33. What are the tree traversal techniques ? Explain with an example.
34. Explain BFS on a graph in detail with an example.
35. Explain Bubble sort with an example.

(2 × 15 = 30 marks)

SECOND SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

Retail Management

SDC 2RM 06—RETAIL SHOPPER BEHAVIOUR

Time : Three Hours

Maximum : 80 Marks

Part A

*Answer all questions.**Each question carries 1 mark.*

1. DMU stands for _____.
2. State anyone buying motives _____.
3. _____ refers to oral presentation in conversation with one or more prospective customers for the purpose of making sales.
4. _____ is an unpaid communication.
5. _____ an act or performances that does not result into ownership of anything.
6. _____ is finest form of promotion done by sales force.
7. _____ is one of the examples of allowances offered to traders.
8. _____ is the sum total of financial and non-financial benefits provided to sales force in lieu of their services provided to organization.
9. _____ is quantitative goal assigned to a sales person.
10. _____ is termed as negative process through which pool of talented manpower is screened and finally desired number of people are offered employment.

(10 × 1 = 10 marks)

Part B

*Answer any eight questions.**Each question carries 2 marks.*

11. Discuss objective of Sales promotion.
12. Explain the importance of studying Consumer behaviour in marketing.
13. State the part played by a Sales organization.

Turn over

14. What are the advantages of using Selection tests ?
15. What is the selection process of a Sales man ?
16. What are the various methods of controlling Salesmen ?
17. State Primary buying motives.
18. What you meant by Sales presentation ?
19. Give any two duties of a Salesman.
20. State about a Product features.

(8 × 2 = 16 marks)

Part C

*Answer any six questions.
Each question carries 4 marks.*

21. Bring out the features of Industrial products.
22. What do you meant by Approach ? State the methods of making the approach.
23. State different forms of Promotional advertising.
24. Write a short note on different types of Customer services.
25. What measures would you suggest for sales promotion of a consumer product ?
26. Discuss the merits and demerits of various Sales Promotion methods.
27. Define the concept of Buying behaviour. What are its importance ?
28. What is the necessity of training salesman ?

(6 × 4 = 24 marks)

Part D

*Answer any two questions.
Each question carries 15 marks.*

29. Explain the advantages and dis advantages of external sources of recruitment of a Sales man.
30. What you mean by a product ? What are the methods used to help a customer to choose a right product ?
31. What you mean by decision making ? What are the psychological factors that influence in consumer decision making ?
32. Why is formal evaluation of the performance of the salesman necessary ? Discuss various ways in which such evaluation can be done.

(2 × 15 = 30 marks)

SECOND SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

Retail Management

SDC2RM05—RETAIL LOGISTICS MANAGEMENT

Time : Three Hours

Maximum : 80 Marks

Part A

*Answer all questions.
Each question carries 1 mark.*

1. _____ provides an organization competitive and efficient and provide superior customer service.
2. The first step of supply chain management process is _____.
3. Expand 4PL _____.
4. _____ is the cost of maintenance of inventory.
5. PL stands for _____.
6. Give one example of discounts _____.
7. _____ includes activities associated with bringing materials into business including material handling, warehousing, inventory control etc.
8. The major decision areas in supply chain management are _____.
9. _____ means management of stock levels.
10. Quality is defined by the customer is _____.

(10 × 1 = 10 marks)

Part B

*Answer any eight questions.
Each question carries 2 marks.*

11. What you mean by Logistics outsourcing ?
12. Define Global logistics.
13. What you mean by Storage ?
14. Give the major advantages of Warehousing.
15. What are the limitations of Air transport ?
16. Give notes on Bonded ware housing.

Turn over

17. State any *two* limitations of Public warehouse.
18. State any *two* benefits of Outsourcing.
19. What are the components of SCM ?
20. State the benefits and demerits of Road transport.

(8 × 2 = 16 marks)

Part C

*Answer any six questions.
Each question carries 4 marks.*

21. Gives the factors governing selection of transport media.
22. “Warehousing is not a Marketing function”. Explain.
23. State features of Storage facility.
24. Discuss the elements of Logistics.
25. What are the merits and demerits of Motor transportation in marketing goods ?
26. “For transportation of perishable product to distant place air transport is most suitable and cheaper explains.
27. Explain the limitations of Government warehousing.
28. What is the relation of storage to the behavior of prices for a given commodity ?

(6 × 4 = 24 marks)

Part D

*Answer any two questions.
Each question carries 15 marks.*

29. Bring out the significance of storage and warehousing in modern marketing and state the advantages of public warehouse.
30. Define Logistics Management. Explain its features and importance in detail ?
31. Write a note on Blue whip Effect. How it can be reduced ?
32. How Retail system different from wholesale system ? Comments on it.

(2 × 15 = 30 marks)

SECOND SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

Retail Management

GEC 2FA 06—FINANCIAL ACCOUNTING

Time : Three Hours

Maximum : 80 Marks

Part A*Answer all questions.**Each question carries 1 mark.*

1. An estimate of future bad debts is called _____.
2. Only cash book and personal accounts are maintained under _____ system.
3. Cost minus accumulated depreciation is known as _____.
4. Debenture holders are _____ of the company.
5. _____ expenses are shown in the Profit and Loss account.
6. FASB was established in _____.
7. No transfer to reserve is obligatory if the proposed dividend does not exceed _____.
8. General insurance is a contract of _____.
9. Prepaid expenses appear in trial balance will appear in _____.
10. Share allotment is a _____ account.

(10 × 1 = 10 marks)

Part B*Answer any eight questions.**Each question carries 2 marks.*

11. What is Double insurance ?
12. What is a Statement of affairs ?
13. What are Adjusting entries ?
14. What is a Memorandum trading account ?
15. What is Inter Office Adjustment ?
16. What is Double voucher system ?

Turn over

17. Define Financial elements.
18. What is Slip system ?
19. What is Life Insurance Fund ?
20. What is Scrip dividend ?

(8 × 2 = 16 marks)

Part C

Answer any six questions.

Each question carries 4 marks.

21. How do you determine profit of Life Insurance business ?
22. Differentiate between General Insurance and Life Insurance.
23. What are the objectives of IASB ?
24. What are Non-performing assets ? How are they identified ?
25. What journal entries will be made in the following cases :
 - (a) A company issued Rs. 40,000 6 % debentures at par redeemable at par ;
 - (b) A company issued Rs. 40,000 6 % debentures at discount of 10 % redeemable at par ;
 - (c) A company issued Rs. 40,000 6 % debentures at premium of 5 % redeemable at par ;
 - (d) A company issued Rs. 40,000 6 % debentures at par redeemable at 10 % premium ; and
 - (e) A company issued Rs. 40,000 6 % debentures at a discount of 5 % and redeemable at 5 % premium.

Also show how will you deal with the loss on issue of debentures in the book ?

26. The following information is obtained from the books of Mohan Traders :

	Rs.
Debtors on April 01, 2013	50,000
Debtors on March 31, 2014	70,000
Cash received from debtors	60,000
Discount allowed	1,000
Bills receivable	30,000
Bad debts	3,000

Prepare Total Debtors Account.

27. From the following figures, prepare Revenue account in the statutory form of the Star Assurance Co. LTD for the year ended 31-12-201 :

Two to three years (Secured)	3,000
More than three years	1,800
(Secured by mortgage of machinery worth Rs 1,000 Lakhs)	
Non recoverable assets	3,000.

28. X Ltd. Acquired assets for Rs. 5,00,000 and took over liabilities amounted to Rs. 1,00,000 of A Ltd. For a purchase consideration of Rs. 4,50,000 which was paid by X Ltd. by the issue of 10 % debentures of Rs. 100 each at par. Show the entries in the book of X Ltd.

(6 × 4 = 24 marks)

Part D

*Answer any two questions.
Each question carries 15 marks.*

29. Prepare a Trading and P and L A/c for the year ending 31.03.2018 and a Balance Sheet as on that date from the following Trial Balance :

Trial Balance :

<i>Particulars</i>	Dr. (Rs.)	Cr. (Rs.)
Opening Stock	16,000	
Capital		45,000
Salaries	13,000	
Drawings	4,000	
Carriage Inwards	500	
Carriage Outwards	...	1,000
Sales Return	...	1,000
Purchase Return		700
Loan to Mr. X	...	11,000
Loan from Mr. Y	...	7,000
Rent	...	1,300

Turn over

Particulars	Dr. (Rs.)	Cr. (Rs.)
Rent Outstanding		200
Purchase	40,000	
Sales		73,100
Debtors	25,000	
Creditors		8,000
Bad Debt	800	
Reserve for Bad Debt		1,200
Discount Allowed/Received	600	
Furniture	11,700	
Wages	500	
Insurance Premium	1,200	
Rent by Sub-letting		800
		300
Cash	700	
Bank	8,000	
Total	<u>1,36,300</u>	<u>1,36,300</u>

Adjustments :

- 1 Closing Stock Rs. 10,500, but the market value of closing stock was Rs. 9,500.
- 2 Insurance premium prepaid Rs. 200.
- 3 Loan to Mr. X, given at 10 % interest p.a. and loan taken from Mr. Y carries 9 % interest p.a.
- 4 Depreciation is to be provided at 5 % on furniture.
- 5 Goods worth Rs. 500 have been taken by the proprietor for private use.
- 6 Bad and doubtful debts are to be provided at 10 %.

Or

30. Define Accounting Standards ? What are the advantages and disadvantages of accounting standards ?

31. Compute the amount of total purchases and total sales of Mr. Amit from the following information for the year ending on March 31, 2018 :

Total debtors as on April 01, 2013	40,000
Total creditors as on April 01, 2013	50,000
Bills receivable as on April 01, 2013	30,000
Bills payable as on April 01, 2013	45,000
Discount received	5,000
Bad debts	2,000
Return inwards	4,000
Discount allowed	3,000
Cash sales	10,000
Cash purchases	8,000
Total debtors as on March 31, 2014	80,000
Cash received from debtors	1,00,000
Cash paid to creditors	80,000
Cash received against bills receivable	25,000
Payment made against bills receivable	40,000
Total creditors as on March 31, 2014	40,000
Bills payable as on March 31, 2014	50,000
Bills receivable as on March 31, 2014	35,000

Or

32. X Ltd issued a prospectus offering 10,000 equity shares of Rs. 20 each at Rs. 22 per share payable as follows :

On Application	Rs. 4
On Allotment (including premium)	...	Rs. 5
On First Call		Rs. 6
On final Call		Rs. 7

Turn over

On 1st call being made all the shareholders except one holding 300 shares, duly paid the amounts. These 300 shares were forfeited by the Board after giving the due notice.

Show the entries in the journal and cash book relating to these and relevant extract from the liability side of the balance sheet drawn thereafter

(2 × 15 = 30 marks)

CHMK LIBRARY UNIVERSITY OF CALICUT

SECOND SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

Optometry

SDC 2BC 06—BIOCHEMISTRY

Time : Three Hours

Maximum : 80 Marks

Section A (Very Short Answer)

*Answer all questions.**Each question carries 1 mark.*

1. Name any *two* Plasma lipids.
2. Name the essential component of vitamin B12.
3. Megaloblastic anemia is caused by the deficiency of _____.
4. Kwashiorkor is characterized by _____.
5. Test for ketonebodies in urine is _____.
6. Deficiency of Vitamin D leads to _____.
7. The lens contains soluble proteins called _____.
8. Deficient enzyme in phenylketonuria.
9. Bilirubin is formed during _____ catabolism.
10. What is the normal pH of blood ?

(10 × 1 = 10 marks)

Section B (Short Answer)

*Answer any eight questions.**Each question carries 2 marks.*

11. Define Pellagra and its symptom.
12. Write about serum transaminases. Give examples
13. Give any two biochemical functions of copper.
14. What are Poly unsaturated fatty acids. Give two examples ?
15. What is sorbitol and how it affects human eye ?

Turn over

16. What is vitreous humor and what is its function ?
17. What are the functions of carbohydrates ?
18. Distinguish between glucogenic and ketogenic aminoacids.
19. Write the biochemical role of Zinc.
20. Differentiate between anomers and epimers.
21. What are the important compounds synthesised from tyrosine ?
22. What is Alkaptonuria ?

(8 × 2 = 16 marks)

Section C (Short Essays)

Answer any **six** questions.

Each question carries 4 marks.

23. Briefly explain the Carnitine shuttle.
24. Compare deamination and transdeamination.
25. Discuss about glycogen storage diseases.
26. What is lactose intolerance ?
27. Give a short note on diabetes mellitus.
28. Explain the classifications of lipids.
29. Analyse the chemical nature of rhodopsin and its role in visual cycle.
30. Differentiate between starch and glycogen.
31. Which are the three layers of tear film ? Explain each in two or three sentences.

(6 × 4 = 24 marks)

Section D (Essays)

Answer any **two** questions.

Each question carries 15 marks.

32. Describe the digestion and absorption of Carbohydrate.
33. Describe the detoxication of ammonia by Urea cycle. Explain its regulation and disorder.
34. Define glycolysis. Explain the steps and how is it regulated in the body ?
35. Explain the requirement, sources, factors affecting the absorption, functions and deficiency of Iron.

(2 × 15 = 30 marks)

SECOND SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

Optometry

SDC 2GO 05—GEOMETRICAL OPTICS

Time : Three Hours

Maximum : 80 Marks

Section A (Very Short Answers)

Answer all questions.

1. Light of a single wavelength is called _____.
2. Define corpuscles.
3. Shape of the wavefront depends on _____.
4. Write any one property of light.
5. The energy of individual photon is directly proportional to _____ and inversely proportional to _____.
6. Wave nature of light can explain the phenomenon of _____.
7. The region of electromagnetic spectrum of wavelength larger than red is called _____.
8. Write the equation of second law of reflection.
9. Name the ray which does not obey the laws of refraction in double refraction.
10. The inverse of dispersive power is called _____.

(10 × 1 = 10 marks)

Section B (Short Answers)

Answer any eight questions.

11. Describe rectilinear propagation of light
12. Define Fermat's principle in optics.
13. What is coma and how can it be minimized ?

Turn over

14. Describe Maxwell's electromagnetic theory of light.
15. What are cardinal points ?
16. Define dispersive power.
17. What is Fresnel's prism ?
18. What is Abbe's number ?
19. Explain the terms chromatic and spherical aberration.
20. State Huygens's wave theory of light.
21. Obtain the expression for resolving power of a prism.
22. Describe an optical fibre with the working principle of it.

(8 × 2 = 16 marks)

Section C (Short Essay)

Answer any six questions.

23. Explain different types lens aberrations. How can we correct them ?
24. Obtain the system matrix for a thick lens.
25. Describe the speed of light and frequency of light.
26. Describe nodal point of a thick lens.
27. Explain the dispersion of light by a prism.
28. Explain the modes of propagation in optical fibers.
29. Explain quantum theory of light.
30. Derive lens makers formula.
31. The numerical aperture of an optical fibre is 0.39. If the difference in the refractive indices of the material of its core and cladding is 0.05, calculate the refractive index of the material of the core and cladding.

(6 × 4 = 24 marks)

Section D (Essays)

Answer any two questions.

32. Describe angular dispersion and explain Abbe's number.
33. Describe various properties of light with the theories used to explain those properties.
34. Describe optical fibres in detail and derive an expression for the numerical aperture of optical fibre.
35. State and explain the laws of reflection and refraction of light.

(2 × 15 = 30 marks)

CHMK LIBRARY UNIVERSITY OF CALICUT

SECOND SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

Optometry

GEC 20A 06—OCULAR ANATOMY AND PHYSIOLOGY

Time : Three Hours

Maximum : 80 Marks

Section A (Very Short Answer)*Answer all questions.**Each question carries 1 mark.*

1. The vitreous humour is a fluid contained in the anterior segment of eye. Whether this statement is true or false ?
2. The volume of each orbit is about _____ cc.
3. The refractive index of lens is _____.
4. Modified sebaceous gland in glands of eye lids called _____.
5. Crystalline lens is placed between iris and vitreous in a saucer shaped depression known as _____.
6. Center of iris is known as _____.
7. Anterior part having finger like ciliary process called _____.
8. Oblique muscles are divided into two. What are they ?
9. Which are the cranial nerves supplying extra ocular muscles ?
10. Macula lutea is also known as _____.

(10 × 1 = 10 marks)

Section B (Short Answer)*Answer any eight questions.**Each question carries 2 marks.*

11. What is peripheral retina ?
12. What is macula lutea ?
13. What is cortical vitreous ?
14. What is lens capsule ?
15. Write about the apertures of sclera.

Turn over

16. State Sherrington's law.
17. Name the four layers of iris.
18. What are the two main functions of ciliary body ?
19. Name the four rectus muscles and its nerve supply.
20. What is angle of anterior chamber ?
21. Write about two oblique muscles.
22. Name the four rectii muscles.

(8 × 2 = 16 marks)

Section C (Short Essays)

*Answer any six questions.
Each question carries 4 marks.*

23. Briefly explain the microscopic structure of Retina.
24. Write a short note on blood supply of eyelid.
25. Explain light adaptation.
26. Explain saccadic, smooth pursuit, nystagmic eye movements.
27. Write a note on the layers of sclera.
28. Write a short note on blood supply of uveal tract.
29. Briefly explain the functional divisions of retina.
30. Explain the structure of photoreceptor.
31. Explain briefly the nerve supply of extraocular muscles.

(6 × 4 = 24 marks)

Section D (Essays)

*Answer any two questions.
Each question carries 15 marks.*

32. Explain about cranial nerves associated with ocular structures.
33. Explain physiology of pre corneal tear film and eyelids.
34. Write an essay on anatomy and physiology of cornea with a neat diagram.
35. Explain about structure and functions of lens.

(2 × 15 = 30 marks)

SECOND SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021**Multimedia****SDC 2MM 06—PHOTOGRAPHY AND VISUAL EFFECTS**

Time : Three Hours

Maximum : 80 Marks

Section A (Very Short Answer Questions)

*Answer all questions.
Each question carries 1 mark.*

1. Anaglyphs are :
 - (a) 3D prints.
 - (b) 3D slides.
 - (c) Black and White slides .
2. Visible light occurs between :
 - (a) 3000 and 8000 Angstrom.
 - (b) 3000 and 7000 Angstrom.
 - (c) 4000 and 7000 Angstrom.
3. Which of the following parts of the eye are the most Colour sensitive :
 - (a) The rods.
 - (b) The cones.
 - (c) The iris.
4. Red colours under green light would appear :
 - (a) Green.
 - (b) Blue.
 - (c) Black.
5. A Candela is a measure of light :
 - (a) Wavelength.
 - (b) Temperature.
 - (c) Intensity.

Turn over

6. What is 'posterization' ?
- (a) Extreme tone separation.
 - (b) Partial image reversal.
 - (c) Total image reversal.
7. Magenta is a combination of :
- (a) Red and blue light.
 - (b) Red and green light.
 - (c) Blue and green light.
8. A chronographic camera is used to photograph :
- (a) Night-time images with infrared.
 - (b) Heat emission.
 - (c) The sun.
9. Guide number refers to :
- (a) The power output of a flash.
 - (b) The focal length of a lens.
 - (c) The sprocket numbers on roll film.
10. Snow scenes fool camera meters into :
- (a) Over exposure.
 - (b) Nothing, the meters compensate.
 - (c) Under exposure.

(10 × 1 = 10 marks)

Section B (Short Answer Questions)

*Answer any **eight** of the following.
2 marks each.*

11. What is DSLR.
12. Short note on ISO.
13. Explain different types of Lens.
14. What is Visual effects ?

15. Basic Photo Composition.
16. What are Portraiture, Landscape ?
17. Explain Candid Photography.
18. What are Basic Photo Composition ?
19. What are the Special Effects ?
20. Explain Depth of Focus.
21. What is F numbers ?
22. What is Key and Soft Light ?

(8 × 2 = 16 marks)

Section C (Short Essay Questions)

*Answer any six of the following.
4 marks each.*

23. Explain Photographic Lighting ?
24. What is Diffused Light ?
25. Explain Mega Pixel.
26. Write about DPI and PPI ?
27. Define Rule of Third and its importance in Photography.
28. What is high dynamic range Photography ?
29. How to use Photoshop in Photo Editing ?
30. What are difference between Shutter speed and Aperture ?
31. What is Panning ?

(6 × 4 = 24 marks)

Turn over

Section D (Essay Questions)

Answer any two questions.

Each question carries 15 marks.

32. Define Light and Different types of Light.
33. Explain about basic photo editing by using Photoshop.
34. Differentiation 2D effects and 3D effects.
35. Explain Visual Effects Tool and advanced functions.

(2 × 15 = 30 marks)

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SECOND SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021**Multimedia****SDC 2MM 05—MULTIMEDIA TOOLS AND TECHNIQUES**

Time : Three Hours

Maximum : 80 Marks

Section A (Very Short Answer Questions)*Answer all questions.**Each question carries 1 mark.*

1. A family of graphics characters that usually includes many type size and style is called a :
 - A) Typeface.
 - B) Font.
 - C) Point.
 - D) Link.
2. Which tool should you use to modify the shape of a path within a Live Paint group ?
 - A) Selection tool.
 - B) Direct Selection tool.
 - C) Live Paint Bucket tool.
 - D) Live Paint Selection tool.
3. Which palette allows you to check what areas of your artwork are affected by transparency ?
 - A) Transparency palette.
 - B) Document Info palette.
 - C) Graphic Styles palette.
 - D) Flattener Preview palette.
4. Which file format supports partial opacity when exporting an Adobe Illustrator document ?
 - A) GIF.
 - B) PSD.
 - C) PICT.
 - D) JPEG.
5. What should you do to convert type into editable vector objects ?
 - A) select the type with the Type tool, then choose Type>Create Outlines.
 - B) select the type with the Type tool, then choose Object>Live Paint>Make.
 - C) select the type with the Selection tool, then choose Object>Live Paint>Make.
 - D) select the type with the Selection Tool, then choose Type>Create Outlines.
6. Which is only an advantage of Open Type fonts ?
 - A) They take advantage of Optical Kerning.
 - B) They can be converted to outlines, then edited as paths.
 - C) You can automatically apply ligatures if they are available.
 - D) They are good for Web design because they are installed with most modern Web browser applications.

Turn over

7. What is the difference between raster and vector graphics ?
- A) Raster graphics use CMYK, while vector graphics use the RGB.
 - B) Raster graphics are composed of pixels, while vector graphics are composed of path.
 - C) Raster graphics are composed of swatches, while vector graphics are composed of arcs.
 - D) Raster graphics can be exported, while vector graphics can only be saved.
8. You want to straighten, crop, and resample your image in one step. Which tool or command should you use ?
- A) The Crop tool.
 - B) The Ruler tool.
 - C) Choose Image > Trim.
 - D) Choose Image > Crop.
9. You are experimenting with different filter combinations. Which command should you choose to ensure that your filters are non-destructive ?
- A) Filter > Filter Gallery.
 - B) Select > Isolate Layers.
 - C) Filter > Convert for Smart Filters.
 - D) Image > Adjustments > Photo Filter.
10. You want to change the default Auto Leading percentage for type. What should you do ?
- A) Choose Justification from the Character palette menu.
 - B) Choose Justification from the Paragraph palette menu.
 - C) Choose the percentage from the Leading menu of the Character palette.
 - D) Choose the percentage from the Leading menu of the Paragraph palette.

(10 × 1 = 10 marks)

Section B (Short Answer Questions)

Answer any **eight** of the following.

Each question carries 2 marks.

- 11. Explain Additive & Subtractive Color Model.
- 12. How to select an object and work with the Control panel in Adobe Illustrator ?
- 13. How to use layers in Illustrator ?
- 14. How to Unlock Background ?
- 15. What features does Photoshop have that Photoshop Elements doesn't ?
- 16. How to use the File Browser rather than the Organizer ?

17. What's the difference between the Healing Brush and the Spot Healing Brush ?
18. Explain Artistic Filters.
19. What are Bitmap Image ?
20. What are two types of Masking in Photoshop ? Explain each one.
21. Explain Text Wrap.
22. What is Embedded Objects ?

(8 × 2 = 16 marks)

Section C (Short Essay Questions)

*Answer any six of the following.
Each question carries 4 marks.*

23. Explain Simple Audio Compression Methods.
24. Explain MPEG..
25. Brief description about Vector image & Bitmap Image.
26. Explain Workspace of Illustrator.
27. Difference between Primary and Secondary Colors.
28. What are the basic steps of image Processing ?
29. What is essential difference between graphics and images ?
30. Explain Audio features and applications.
31. Discuss the fundamentals characteristic of sound.

(6 × 4 = 24 marks)

Section D (Essay Questions)

*Answer any two of the following.
Each question carries 15 marks.*

32. What is meant by compression and CODEC ?
33. How does the CMYK color model represent color information ? Why is it called Subtractive model ?
34. What are the effects in Photoshop ?
35. Explain feature of multimedia.

(2 × 15 = 30 marks)

SECOND SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

Logistics Management

SDC 2L M07—TRANSPORTATION AND DISTRIBUTION MANAGEMENT

Time : Three Hours

Maximum : 80 Marks

Part A

*Answer all questions.**Each question carries 1 mark.*

1. Certificate of Origin is issued by _____.
 - a) Chamber of Commerce.
 - b) Port Trust.
 - c) Export Promotion Council.
 - d) Terminal.
2. EXIM documents are cleared by _____.
 - a) CHAs.
 - b) Stevedores.
 - c) Ship Chandlers.
 - d) Port Trust.
3. Logistics is a channel of _____ which adds the value of time and place utility.
 - a) Management.
 - b) Supply Chain.
 - c) Security.
 - d) Equipment.
4. Authority responsible for controlling the harbour is :
 - a) Pilot.
 - b) Harbour Master.
 - c) Port Trust Chairman.
 - d) Logistician.
5. A Professional working in the field of logistics management is called :
 - a) Accountant.
 - b) Logistician.
 - c) Warehouseman.
 - d) Manager.
6. The main function of a Logistician is _____.
 - a) Inventory Management.
 - b) Packaging.
 - c) Selling.
 - d) Distribution.

Turn over

7. The logistics process within the industry is called _____.
- a) Management Logistics. b) Production Logistics.
c) Distribution Logistics. d) None of the above.
8. _____ focuses on the conversion of raw materials into finished products.
- a) Supply. b) Manufacturing.
c) Distribution. d) Transportation.
9. _____ includes order information and delivery status.
- a) Financial Flow. b) Information Flow.
c) Product Flow. d) Transportation.
10. The first packaging material is used for _____.
- a) Basket. b) Glass.
c) Metal. d) None of the above.

(10 × 1 = 10 marks)

Part B (Short Answer Questions)

Answer any eight questions.

Each question carries 2 marks.

11. What is M-Commerce ?
12. What is Cause Packaging ?
13. What is Fishy Back ?
14. What is RORO ?
15. What is the need for Outsourcing ?
16. What is Reverse Logistics ?
17. What are the tools of supply chain management ?
18. What are the various transportation costs ?
19. What do you meant by Transport Optimization ?
20. What are the merits of Distribution management ?

21. What is Inbound Warehouse ?
22. What is Packaging ?

(8 × 2 = 16 marks)

Part C (Short Essay Questions)

Answer any six questions.

Each question carries 4 marks.

23. Explain the concept of Freight Consolidation.
24. What are the various factors in SCM ?
25. What are the various factors in distribution ?
26. Explain the difference between B2C and B2G E-Commerce Model.
27. Explain the various types of Warehouses.
28. What are the demerits of Logistics Management ?
29. Explain the functions of a Logistician
30. Explain the process of distribution management.
31. What do you meant by Intelligent Transport System?

(6 × 4 = 24 marks)

Part D (Essay Questions)

Answer any two questions.

Each question carries 15 marks.

32. Explain the Transport Security Initiatives and the role of technology in Transportation.
33. Explain the differences between various distribution networks.
34. What are the application of Information Technology in Transportation.
35. Explain the various Transport Inspection Systems.

(2 × 15 = 30 marks)

SECOND SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

Logistics Management

SDC 2LM 06—WAREHOUSE MANAGEMENT

Time : Three Hours

Maximum : 80 Marks

Part A

*Answer all questions.**Each question carries 1 mark.*

1. The most basic technique of inventory management is :
 - a) ABC Analysis.
 - b) ZYX analysis.
 - c) BA analysis.
 - d) PQR analysis.
2. MHE stands for :
 - a) Material Handling Elements.
 - b) Movement horizontal element.
 - c) Material Handling Equipment.
 - d) Measure Handling Equipment.
3. What is the main benefit of WMS ?
 - a) Transparency in inventory management.
 - b) Reducing inventory storage and accuracy.
 - c) Reduces shipping costs and shipping errors.
 - d) All of these.
4. _____ is a document used for order picking customer's requirement.
 - a) Pick list.
 - b) JIT.
 - c) RF terminals.
 - d) Consolidation.
5. Trade-offs must be made among space, labour, and _____ with respect to warehousing design.
 - a) Cost.
 - b) Construction materials.
 - c) Mechanization.
 - d) Speed.

Turn over

6. Which of these is not a basic service benefit of warehousing ?
- a) Assortment.
 - b) Financing.
 - c) Spot stock.
 - d) Mixing.
7. Merchandise that is requested by a customer but is temporarily unavailable is :
- a) Stock keeping unit.
 - b) Stock outs.
 - c) Facility stock.
 - d) Capacity stock.
8. _____ are focused on e-commerce orders.
- a) Warehouses.
 - b) Distribution centers.
 - c) Fulfilment centers.
 - d) Cross-dock facilities.
9. _____ involves bringing together similar stocks from different sources.
- a) Bulk-breaking.
 - b) Assorting.
 - c) Accumulating.
 - d) Sorting out.
10. _____ refers to the management of various activities associated with the order cycle.
- a) Logistics.
 - b) Order processing.
 - c) Demand management.
 - d) Order management.

(10 × 1 = 10 marks)

Part B (Short Answer Questions)

*Answer any eight questions.
Each question carries 2 marks.*

11. What is vehicle utilization ?
12. What is distribution resource planning ?
13. What is bar coding technology ?
14. What is safety stock ?
15. What are the types of warehouse ?
16. What are echelon inventory systems ?
17. What is pick to light ordering ?
18. What are the Basic Principles in Material Handling ?

19. What is finished goods inventory ?
20. Define the Decision making process of Warehouse management.
21. Define ABC Inventory control.
22. What is WIP inventory ?

(8 × 2 = 16 marks)

Part C (Short Essay Questions)

Answer any six questions.

Each question carries 4 marks.

23. Explain the basic types of inventories.
24. Explain the infrastructure of warehouse.
25. What is an independent Demand System ?
26. What is value added processing in warehouse ?
27. What are the different types of storage policies ?
28. What is ITR ?
29. Describe the characteristics of an Ideal Warehouse.
30. Explain the evolution of warehouse for ancient times to present time.
31. Distinguish between private warehouse and public warehouse.

(6 × 4 = 24 marks)

Part D (Essay Questions)

Answer any two questions.

Each question carries 15 marks.

32. Explain :
 - a) Effective performance system.
 - b) Dependent demand system.
 - c) Independent demand system.
33. Explain the application of Barcode technology and its advantages.
34. What is material handling system ? Explain the fundamentals of various materials handling system.
35. Explain the concept of warehouse and examine its functions.

(2 × 15 = 30 marks)

SECOND SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

Logistics Management

SDC 2LM 05—DOMESTIC LOGISTICS MANAGEMENT

Time : Three Hours

Maximum : 80 Marks

Part A

*Answer all questions.**Each question carries 1 mark.*

1. Invoice is a _____ document.
 - a) Statistical.
 - b) Accounting.
 - c) Credit.
 - d) None of these.
2. Which of the following document is used while transportation ?
 - a) Invoice.
 - b) Packing list.
 - c) Both of the above.
 - d) None of the above
3. Which mode of transportation causes the maximum amount of loss and damage ?
 - a) Water.
 - b) Road.
 - c) Rail.
 - d) Pipeline.
4. For products with high level of uncertainty in demand, the following strategy is suitable :
 - a) Use of a faster mode of transportation.
 - b) Use of a slower mode of transportation.
 - c) Keeping a higher amount of cycle stock.
 - d) Use of a faster mode of transportation and higher amount of safety stock.
5. _____ is preparing a sequence of action steps to achieve some specific goal.
 - a) Planning.
 - b) Directing.
 - c) Organising.
 - d) Strategy.

Turn over

6. _____ is important because it facilitates trade, exchange and travel.
- a) Warehousing.
 - b) Transportation.
 - c) Logistics.
 - d) International business.
7. _____ systems are used in military applications and by emergency crews to locate people in need of assistance.
- a) Wifi.
 - b) GPS.
 - c) Logistics.
 - d) Signals.
8. Consignment note is prepared by :
- a) Accountant.
 - b) Warehouse manager.
 - c) Consigner.
 - d) Banker.
9. GPS stands for :
- a) Globe positioning system.
 - b) General Portable System.
 - c) Global positioning system.
 - d) None.
10. B/L means :
- a) Bill of lading.
 - b) Base model.
 - c) Bill of logistics.
 - d) None of these.

(10 × 1 = 10 marks)

Part B

Answer any eight questions.

Each question carries 2 marks.

- 11. What is a way bill ?
- 12. What is a packing List ?
- 13. What is LTL ?
- 14. What is Invoice ?
- 15. What is bill of lading ?
- 16. What is whole life costing ?
- 17. What is long Haul ?
- 18. What is fleet management ?

19. What is tare weight of the truck
20. What is gross weight of the truck ?
21. What you mean by term Freight ?
22. Expand LR.

(8 × 2 = 16 marks)

Part C

*Answer any six questions.
Each question carries 4 marks.*

23. What are the details contained in a consignment notes ?
24. What is the importance of invoice and what does it contain ?
25. Discuss various transport systems in existence.
26. What are the Issues in vehicle routing ?
27. Explain the strategy of computer routing and scheduling.
28. What is the need of fleet planning ?
29. What are the documents used during export ?
30. What are the segments of commercial vehicles in India ?
31. Differentiate between FTL and LTL.

(6 × 4 = 24 marks)

Part D

*Answer any two questions.
Each question carries 15 marks.*

32. What is vehicle selection ? Explain the load types and characteristics of vehicles.
33. What is Transportation ? Explain requirements for transport resource.
34. What is zero based budget ? Explain its advantages and disadvantages.
35. Explain the issues faced by truck drivers in India.

(2 × 15 = 30 marks)

SECOND SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

Logistics Management

GEC2PM06—PRINCIPLES OF MANAGEMENT

Time : Three Hours

Maximum : 80 Marks

Part A

*Answer all questions.
Each question carries 1 mark.*

1. The principles of scientific management were more concerned with the problems at the _____ levels.
2. There are _____ levels of management.
3. _____ aspect of management heavily concentrates on people aspect of management
4. _____ is the basic function of management.
5. Authority is the right to give _____ and the power to exact obedience.
6. _____ need involves the desire to affiliate with and be accepted by others.
7. _____ induces man power planning, recruitment, selection, placement etc.
8. _____ means drawing a conclusion about production, sales, profit etc.
9. _____ is necessary to avoid extra burden of a single process.
10. _____ is always related to the situation or environment

(10 × 1 = 10 marks)

Part B (Short Answer Questions)

*Answer any eight questions.
Each question carries 2 marks.*

11. What is promotion ?
12. What is Autocratic style ?
13. What is performance standard ?
14. What is scalar chain ?
15. What is goal ?
16. What is supervision ?

Turn over

17. What is off the job training ?
18. What is social system approach ?
19. What is time study ?
20. What is unity of direction ?
21. What is decentralization ?
22. What is demotion ?
23. Define policies.

(8 × 2 = 16 marks)

Part C (Short Essay questions)

*Answer any six questions.
Each question carries 4 marks.*

24. Explain line and staff organization.
25. What is MBO ? Explain its steps.
26. What are the qualities of a good supervisor ?
27. What is controlling ? Explain the objectives and limitations of controlling.
28. Explain Herzberg two factor Theory.
29. What is management ? Explain the process of management.
30. Explain the main features of Direction ?
31. Explain the need and importance of staffing.
32. Explain the types of plans.

(6 × 4 = 24 marks)

Part D (Essay Questions)

*Answer any two questions.
Each question carries 15 marks.*

33. What are the advantages and disadvantages of centralization and decentralization of authority ?
34. Explain formal and informal organization.
35. What is leadership ? Explain various leadership styles.
36. State the merits and demerits of planning ?

(2 × 15 = 30 marks)

SECOND SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021**Jewellery Designing****SDC 2JD 06—HISTORY OF JEWELLERY**

Time : Three Hours

Maximum : 80 Marks

Section A (Very Short / Objective Question)*Answer all questions.**1 mark each.*

1. What does sage Kakshvat pray for ?
2. What did King Janaka present to Sita ?
3. What did Arjun wear while in disguise at the court of Raja Virata ?
4. What is art nouveau Jewellery ?
5. Name an ornament used in Chandella Period.
6. Name an ornament used in Mughal Period.
7. Identify the Jewellery :



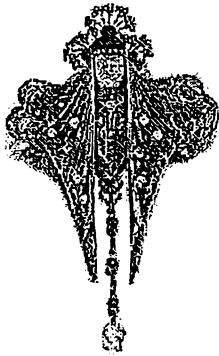
8. Identify the jewellery :

**Turn over**

9. Identify the period of the Jewellery :



10. Identify the period of the jewellery :



(10 × 1 = 10 marks)

Section B (Short Answer)

Answer any eight questions.

Each question carries 2 marks.

11. What were the Early Indus Valley jewellery and Harappan period jewellery ?
12. How are gemstones classified ?
13. What are the typical jewellery pieces of Mughal period ?
14. What are the basic principles followed in Art Nouveau designs ?

15. What are the other metals used for Jewellery nowadays ?
16. What are the trends of Jewellery in modern India ?
17. What is Riviere necklace ?
18. What is segmented necklace ?
19. What is bridal necklace ?
20. What are the jewellery worn by woman ?
21. What is tapering necklace ?
22. What is a brooche ?

(8 × 2 = 16 marks)

Section C (Short Essays)

*Answer any six questions.
Each question carries 4 marks.*

23. Describe briefly about karnika and kantha.
24. Describe Art Deco Jewellery.
25. Write a note on Victorian Jewellery.
26. Draw an international historical Jewellery.
27. What are the typical features of the ancient Egyptian Jewellery ?
28. Explain in detail the tools and implements used for making Jewellery in ancient India.
29. Draw a latest fashion Jewellery.
30. Compare Tiffany and Lalique for their contribution to Jewellery.
31. Explain the process of Ratna pariksha.

(6 × 4 = 24 marks)

Turn over

Section D (Essays)

*Answer any two questions.
Each question carries 15 marks.*

32. Write a note on Jewels of Indian subcontinent.
33. Compare the jewellery worn by Indian women in Mauryan period and in 21st century.
34. Design a earring of Victorian period and render with colour pencil.
35. Explain the tribal Jewellery of Nagaland.

(2 × 15 = 30 marks)

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SECOND SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

Jewellery Designing

SDC 2JD 05—JEWELLERY DESIGNING PAPER-III

Time : Three Hours

Maximum : 80 Marks

Section A (Very Short / Objective Question Answers)*Answer all questions.**Each question carries 1 mark.*

1. The platinum family metal used primarily as a plating metal is :
 - (a) Silver.
 - (b) Ruthenium.
 - (c) Palladium.
 - (d) Rhodium.
2. The traditional measurements of the weight of precious metals in the jewellery trade are :
 - (a) Troyounces and pennyweight.
 - (b) Grams.
 - (c) Carats.
 - (d) Karats and avoirdupois ounces.
3. Give composition of 18K green gold.
4. Give an ore of gold.
5. Name a refinement method of gold.
6. Give an example for nature inspiration.
7. Filling surface-reaching fractures or cavities with a glass, resin, wax or oil to conceal their visibility is known as _____.
8. Exposure of a gem to an artificial source of radiation to change its colour is called _____.
9. The treatment process done to remove the yellow colour from the yellowish pink topaz is _____.
10. Name a mineral to which lattice diffusion is applicable.

(10 × 1 = 10 marks)

Section B (Short Answer)*Answer any eight questions.**Each question carries 2 marks.*

11. What is filing ?
12. What is copper ?
13. What is anode ?
14. What is Matte finish ?

Turn over

15. How do we measure gold ?
16. What is sawdust patina ?
17. Give the uses of platinum.
18. What is assaying ?
19. What are precious metals ?
20. What are the latest non metallic ornaments ?
21. How do you dissolve gold ?
22. What is the importance of historic ornament ?

(8 × 2 = 16 marks)

Section C (Short Essays)

*Answer any six questions.
Each question carries 4 marks.*

23. Define alloying of precious metals.
24. What are ores ? How are they classified ?
25. Where are the earliest findings of gold ?
26. Discuss the uses of vernier callipers.
27. Explain the different types of drills.
28. What is the difference between surface and sub surface mining ?
29. How was platinum discovered ?
30. What is hydrometallurgy ?
31. Discuss the origin of the term "Hallmark".

(6 × 4 = 24 marks)

Section D (Essays)

*Answer any two questions.
Each question carries 15 marks.*

32. Discuss rendering in colour with suitable examples.
33. Draw an Art Deco jewellery.
34. Explain in detail Measuring and Marking tools.
35. Describe platinum applications and its sources.

(2 × 15 = 30 marks)

SECOND SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

Gemmology

SDC 2GM 06—GEMMOLOGY—Paper IV

Time : Three Hours

Maximum : 80 Marks

*Draw neat sketches wherever necessary.***Section A (Objective Type Questions)**

*Answer all ten questions.
Each question carries 1 mark.*

1. How can you remove silk in a ruby ?
2. Which element is used for lattice diffusion method in sapphire ?
3. An example for a gemstone which can be easily dyed.
4. Second step in irradiation treatment is _____.
5. Exposure of a gem to artificial source of radiation to change its colour is called _____.
6. Filled gems can be recognised by using _____.
7. Filling of surface reaching fractures or cavities with glass, resin, wax or oil to conceal their visibility is known as _____.
8. The process which can turn amethyst to citrine.
9. _____ is the introduction of coloured dyes into porous or fractured gems to change their colour.
10. The element which is used in feldspar lattice diffusion.

(10 × 1 = 10 marks)

Section B (Short Answer Type Questions)

*Answer any eight questions.
Each question carries 2 mark.*

11. What is surface coating ?
12. What is laser drilling ?
13. What is spray coating ?
14. What is coloured concrete ?
15. How can we identify heat treated amber ?
16. What is DLC ?

Turn over

17. How do we get ion-implanted coloured diamonds ?
18. What is a coated diamond ?
19. What is meant by lattice diffusion ?
20. What are the special requirements to be taken on bleached gems ?
21. How can you identify a gem which is treated by laser drilling method ?
22. How do we impregnate opal ?

(8 × 2 = 16 marks)

Section C (Short Essay Type Questions)

Answer any six questions.

Each question carries 4 marks.

23. Discuss the trade accepted heat treatments.
24. Discuss the irradiation of pearls.
25. Purposes of treatments in gemstone.
26. What are the problems of irradiation-annealing technology?
27. Describe the HPHT method.
28. Discuss the changes observed in the irradiation of blue topaz.
29. How do we identify fracture filled coloured stones ?
30. How will you distinguish heat treated ruby and sapphire?
31. Identification of dyed rubies.

(6 × 4 = 24 marks)

Section D (Essay Type Questions)

Answer any two questions.

Each question carries 15 marks.

32. Explain in detail about the diagnostic features of red diffusion treated corundums. How do we identify Be-treated corundum ?
33. Give a brief account of irradiation of gemstones. Add note on irradiation of diamonds.
34. Discuss about the bleaching, spraying and coating techniques in gemstones.
35. Give a detailed account of the different treatments in gemstones.

(2 × 15 = 30 marks)

SECOND SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

Gemmology

SDC 2GM 05—GEMMOLOGY—Paper III

Time : Three Hours

Maximum : 80 Marks

*Draw neat sketches wherever necessary.***Section A (Objective type questions)***Answer all ten questions.*

1. Ore of silver.
2. Ore of copper.
3. Alloy which has maximum corrosion resistance.
4. Gemstone which exhibits metamerism.
5. Pyralspite garnet which has 100% Mg.
6. Na-end member of plagioclase.
7. Gem variety of microcline feldspar.
8. Birth stone of August.
9. Composition of sterling silver.
10. Refinement method of gold.

(10 × 1 = 10 marks)

Section B (Short answer type questions)*Answer any eight questions.*

11. What is meant by micro-quartz group ?
12. What is meant by filling ?
13. What is anode ?
14. Why apatite doesn't have wide distribution as gemstone ?
15. What is meant by watermelon tourmaline ?

Turn over

16. What are the inclusions present in tourmaline ?
17. Why barite is called as desert rose ?
18. What is meant by Tenebrescence ?
19. What is sawing ?
20. What are ferrous and non-ferrous metal groups ?
21. How do you increase metal quality of a ring ?
22. How are the precious metals recovered ?

(8 × 2 = 16 marks)

Section C (Short Essay type questions)

Answer any six questions.

23. Compare pink and rose quartz.
24. Application of piezoelectricity in tourmaline.
25. Placer mining method.
26. Believes bear with topaz.
27. Flame test used to identify barite and celestite.
28. Explain the quality control of metals used.
29. Explain the earliest findings of gold.
30. Alloying of precious metals.
31. What is silver ? Describe its application as jewellery.

(6 × 4 = 24 marks)

Section D (Short Essay type questions)

Answer any two questions.

32. Discuss the different quartz gem varieties.
33. Describe platinum applications and its sources.
34. Give an account of the physical and optical properties phenomena shown by peridot.
35. Describe the different mining techniques.

(2 × 15 = 30 marks)

SECOND SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

Food Science

SDC 2FS 07—PACKAGING TECHNOLOGY

Time : Three Hours

Maximum : 80 Marks

Part A*Answer all the following questions in one word or a sentence.**Each question carries 1 mark.*

1. Define intelligent packaging.
2. Define edible coating.
3. List out the components of corrugated boards.
4. Expand PVDC.
5. Define tensile strength.
6. Define shelf life.
7. Examples of primary packages.
8. Examples of semi perishable foods.
9. Define water activity.
10. Write an example of noble gas.

(10 × 1 = 10 marks)

Part B*Answer any eight questions.**Each question carries 2 marks.*

1. Write a brief note on rigid containers with examples.
2. Differentiate between aluminium and tin containers.
3. Brief on packaging of granular products.
4. Differentiate between passive and active MAP.
5. What are disadvantages of plastics ?


Turn over

6. Define GTR.
7. What are advantages and disadvantages of glass ?
8. What is barcodes and its application ?
9. Write a short note on stretch packaging.
10. Mention the different layers of tetra packs.
11. How packaging helps in product identification ?
12. What are the parameters for measuring shelf life ?

(8 × 2 = 16 marks)

Part C

*Answer any six questions.
Each question carries 4 marks.*

1. What is Tetra packs ? Explain in detail with diagram.
2. Write briefly about wooden boxes.
3. Explain the importance of food labelling.
4. Advantage and disadvantage of Polypropylene.
5. Explain in brief on legislative and safety aspects of food packaging.
6. Explain the different machineries used in food packaging.
7. Write a brief note on biodegradable packaging.
8. Explain in brief on functions of packaging.
9. Define shelf life and brief the factors affecting the rate of reactions in food shelf life.

(6 × 4 = 24 marks)

Part D

*Answer any two questions.
Each question carries 15 marks.*

1. Explain briefly on the classification of food packaging with examples.
2. Define shelf life and explain the factors controlling the rate of reactions.
3. Write an essay on aseptic and active packaging.
4. What are the different packaging testing methods ? Explain in detail.

(2 × 15 = 30 marks)

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SECOND SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

Food Science

SDC 2FS 05—DAIRY TECHNOLOGY

Time : Three Hours

Maximum : 80 Marks

Part A

Fill in the blanks. Attempt all the questions :

- a) This technique is used to obtain uniform fat globules in milk _____.
- b) The principal forms of casein are _____, _____ and _____.
- c) HTST pasteurization is done for _____ minutes at _____ temperature.
- d) Fresh dahi has an acidity _____ of lactic acid and a pH of _____.
- e) UHT sterilization of milk is done at _____ for _____ minutes and packed in _____.
- f) An example of soft cheese is _____.
- g) Starters used for Cheddar cheese manufacture are _____ and _____.
- h) _____ is an acid coagulated indigenous dairy product.
- i) White colour of buffalo milk is due to the absence of _____.
- j) The _____ content of milk is reduced as a result of microbial growth.

(10 × 1 = 10 marks)

Part B

Answer any eight of the following.

- i) Highlight the time-temperature combination and benefits of UHT of milk.
- ii) Differentiate between the role of stabilizers and emulsifiers in ice cream.
- iii) What is condensed milk ? Give the fat and moisture contents.
- iv) Mention the different antimicrobial components present in freshly drawn milk.
- v) What is the difference between A2 and A1 milk ?
- vi) Name the organisms involved in Swiss cheese.

Turn over

- vii) Write a note on the color used in Butter.
- viii) Define Pasteurization. What are the types ?
- ix) Mention the defects in butter and their causes.
- x) Explain the principle of MBRT.
- xi) Write a note on Nutritive value of milk.
- xii) Differentiate water in oil and oil in water emulsion with a diagram and example.

(8 × 2 = 16 marks)

Part C

Answer any six of the following.

- i) Mention the different platform tests done before reception of milk.
- ii) Differentiate between SMP and WMP.
- iii) Mention the primary differences of cow and buffalo milk.
- iv) Explain the preparation of cheddar cheese with a flow chart.
- v) Explain briefly the membrane processing technology.
- vi) Explain the role of rennet and starters in cheese manufacture.
- vii) Explain source of microbial contaminants in milk.
- viii) Differentiate roller and spray drying process of making milk powders,
- ix) Draw a flow chart for dahi manufacturing.

(6 × 4 = 24 marks)

Part D

Answer any two of the following.

- i) Describe the bacterial growth curve and classify the classes of bacteria with reference to their growth temperatures.
- ii) Discuss about opportunities and challenges in establishing a dairy industry.
- iii) Explain Indigenous Dairy products with suitable examples and technologies involved in their manufacture.
- iv) Give the standards of cream, flow chart of cream manufacture and the process of separating cream from milk.

(2 × 15 = 30 marks)

SECOND SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

Food Science

GEC 2FM 06—FOOD MICROBIOLOGY-I

Time : Three Hours

Maximum : 80 Marks

(A) Objective type (Answer *all* questions). 1 mark each :

- 1 Organic matter in boiled extracts of hay or meat contained a vital force that could confer the properties of life on the non-living matter ?
 - a) Lazzaro Spallanzani.
 - b) Louis Pasteur.
 - c) John Needham.
 - d) Sergei Winogradsky.
- 2 Microorganisms use light energy and have CO₂ as their carbon source ?
 - a) Autotrophs.
 - b) Heterotrophs.
 - c) Phototrophs.
 - d) Photolithotrophs.
- 3 The cell wall of bacteria is made of :
 - a) Peptides.
 - b) Chitin.
 - c) Nucleotides.
 - d) Peptidoglycan.
- 4 Extra-chromosomal DNA are called as :
 - a) Chromosome.
 - b) Plasmid.
 - c) Prions.
 - d) Microbe.
- 5 Which of the following is a diploid phase in life cycle of fungi ?
 - a) Mitosis.
 - b) Dikaryotic phase.
 - c) Meiosis.
 - d) F1 phase.

Fill in the blanks :

- 6 _____ is an interaction between two organisms in which one organism lives inside the other.
- 7 _____ microscope produces detailed images of living, unstained cells.
- 8 _____ is the transfer of bacterial or archaeal genes by virus particles.
- 9 Basidia held within fruiting bodies are called _____.
- 10 Viruses infecting bacteria are _____.

(10 × 1 = 10 marks)

Turn over

(B) Short answer (Answer any *five* questions). 2 marks each :

- 11 Prions.
- 12 Refractive index.
- 13 Define Resolution.
- 14 Ascomycetes.
- 15 Chemotrophs.
- 16 Yeast.
- 17 What are virions ?

(5 × 2 = 10 marks)

(C) Short Essay (Answer any *six* questions). 5 marks each :

- 18 A brief note on Koch's Postulates.
- 19 Explain Louis Pasteur's experiment to prove the germ theory of disease.
- 20 Explain principle and component of scanning electron microscope.
- 21 Explain general asexual reproduction in Fungi.
- 22 Difference between Light and Transmission Electron Microscope.
- 23 Define peplomers and types of peplomers in Influenza virus.
- 24 Write a brief note on bacterial cell shape.
- 25 Capsule.

(6 × 5 = 30 marks)

(D) Essay (Answer any *two* questions). 15 marks each :

- 26 Explain characteristics and reproduction in ascomycetes fungi.
- 27 Explain Lytic and lysogenic cycle in viruses.
- 28 Write a note on pure culture concept and the experiment conducted to prove them.
- 29 Mention various kinds of microscopes and their applications.

(2 × 15 = 30 marks)

SECOND SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

Fish Processing Technology

SDC2AQ07—POST HARVEST HANDLING OF FISH

Time : Three Hours

Maximum : 80 Marks

Section A*Answer all question.**Each question carries 1 marks.*

1. Which antioxidant is abundant in citrus fruit ?
 - (a) Carotenoid.
 - (b) Ascorbic acid.
 - (c) Tocopherol.
 - (d) Flavonoids.
2. Stages of post harvest losses are :
 - (a) Harvesting.
 - (b) Packaging.
 - (c) Transportation/ storage.
 - (d) All of above.
3. Provide the reason(s) for a systematic post-harvest fish loss assessment in an effective and sustainable loss reduction strategy :
 - (a) Rational use of development resources/assistance.
 - (b) Benchmarking and monitoring an intervention.
 - (c) Address all the losses to reach a zero level loss.
 - (d) Identify the significant losses to better focus interventions.
4. The proper temperature for a home refrigerator should be :
 - (a) Below 8°C (46°F).
 - (b) Below 5°C (41°F)
 - (c) Below 11°C (51.8°F).
 - (d) Below 15°C (59°F).
5. Disposable gloves should be worn by worker's handling which foods :
 - (a) raw chicken being placed in a deep fryer.
 - (b) sandwich bread for immediate service to customers.
 - (c) (A) and (B).
 - (d) None of the above.

Turn over

6. Examples of how to rapidly cool food include :
- (a) Portioning large quantities of foods into smaller units by slicing and pouring.
 - (b) Using metal rather than plastic containers.
 - (c) Ensuring vigorous air circulation around food.
 - (d) All of the above.
7. To maintain freshness and ensure a safe and hygienic product, seafood should be :
- (a) Kept as cold as possible with minimum temperature variation.
 - (b) Prepared as quickly and hygienically as possible.
 - (c) Be stored separately to other food groups or below cooked foods.
 - (d) All of the above.
8. Trout is a :
- (a) Round and oily fish.
 - (b) Flat and white fish
 - (c) Round and white fish.
 - (d) Flat and oily fish.
9. A strong smell of ammonia coming from a green mud crab indicates :
- (a) The crab is getting old or is possibly dead.
 - (b) A desirable quality point when purchasing.
 - (c) The crab has been frozen.
 - (d) Suggests it should be cleaned of dirt or mud.
10. What key nutrient found in oily fish has been shown to increase brain power and help people suffering from autism, ADHD, and depression ?
- (a) Vitamin B12.
 - (b) Phosphorous.
 - (c) Omega-3 fatty acids.
 - (d) Niacin.

(10 × 1 = 10 marks)

Section B

*Answer any eight questions.
Each question carries 2 marks.*

11. What is canning ?
12. Explain the biochemical aspects of fresh fish.
13. What are the functions of primary fishermen co-operative society ?
14. What are the problems of post harvest loss ?
15. What are the quality standards in manufacturing and storing of ice ?
16. Explain the causes of fish spoilage.
17. What is RSW ?
18. What are the chemical treatments done onboard a fishing vessel ?
19. Describe damage of fish due to mechanical handling.
20. Describe the bacterial action leading to spoilage of fish.
21. What are the physicochemical manifestations due to spoilage in fish ?
22. Describe the Quality of water to be used in fish processing.

(8 × 2 = 16 marks)

Section C

*Answer any six questions.
Each question carries 4 marks.*

23. Describe the by-products of fish.
24. What is spoilage? What are its causes ?
25. What are the post harvest treatments done on board fishing vessel ?
26. Describe pre-storage treatments done onboard a fishing vessel.
27. Describe the role of packaging in post harvest handling.
28. Distinguish between RSW and CSW.
29. Explain the pre-treatment of fish for preservation.
30. Comment on the waste management systems in a seafood plant.
31. What is the storage life of fishery products ?

(6 × 4 = 24 marks)

Turn over

Section D

Answer any two questions.

Each question carries 15 marks.

32. Explain principle of freezing, its type and types of freezers.
33. Describe the problems, mechanisms and manifestations of spoilage in fish.
34. Do characterization and quantification of fish spoilage.
35. Describe the processes done in seafood industry after processing and before it reaches consumer.

(2 × 15 = 30 marks)

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SECOND SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

Fish Processing Technology

SDC 2AQ 06—FISH BIOCHEMISTRY AND SPOILAGE

Time : Three Hours

Maximum : 80 Marks

Section A*Answer all questions.**Each question carries 1 mark.*

1. This mineral is essential for healthy red blood cells and a deficiency causes anemia :
 - a) Iron.
 - b) Magnesium.
 - c) Iodine.
 - d) Chromium.
2. Vitamin B-12 is :
 - a) Not a true vitamin, but rather a hormone.
 - b) Present only in cereal grains.
 - c) Present only in foods of animal origin.
 - d) Present only in fruits and vegetables.
3. A reliable source of dietary iodide is :
 - a) Iodide-fortified salt.
 - b) Seed oil.
 - c) Sea salt.
 - d) Fresh water fish.
4. Which of the following components of a meal is last to exit the stomach ?
 - a) Carbohydrates.
 - b) Proteins.
 - c) Alcohol.
 - d) Fats.
5. The protein-digesting enzymes, trypsin, chymotrypsin and carboxypeptidase, are produced by the :
 - a) Pancreas.
 - b) Liver.
 - c) Duodenum.
 - d) Stomach.
 - e) Ileum.

Turn over

6. The difference between fats and oils is, fats :
- a) Have a high percentage of fatty acids as saturated fatty acids.
 - b) Have a high percentage of fatty acids as unsaturated fatty acids.
 - c) Are solid at room temperature.
 - d) Are usually obtained from plant sources.
 - e) Both a) and c).
7. The principal form of lipid in food is :
- a) Triglyceride.
 - b) Fiber.
 - c) Starch.
 - d) Glucose.
 - e) Fatty acid.
8. What would be the best 'heart healthy' snack option from the list below ?
- a) Small portion of nuts.
 - b) Two plain biscuits.
 - c) Small portion of crackers.
 - d) Tub of chocolate dessert.
9. The body can manufacture the blood sugar, glucose from :
- a) Alcohol.
 - b) Fatty Acids.
 - c) Fibers.
 - d) Protein.
10. A product from seaweeds is _____.
- a) Chitin.
 - b) Carrageenan.
 - c) Silage.
 - d) Concentrate.

(10 × 1 = 10 marks)

Section B

Answer any eight questions.

Each question carries 2 marks.

- 11. Define paralytic shellfish poisoning.
- 12. An inorganic acid used in fish silage preparation.
- 13. Why fishes are unable to synthesize Vitamin C ?
- 14. Define glycogenesis.
- 15. Name any two acidic amino acids.
- 16. What is the biochemical constitution of crustaceans ?

17. What are the effects of heating on proteins ?
18. What is auto oxidation ?
19. Define carbohydrates. Give its classification.
20. What is mutarotation ?
21. What are the stages of spoilage ?
22. What is organoleptic evaluation ?

(8 × 2 = 16 marks)

Section C

*Answer any six questions.
Each question carries 4 marks.*

23. Give detailed classification of proteins in fish.
24. Explain the oxidation indices of fish.
25. Probiotics in fish nutrition.
26. Explain intrinsic and extrinsic factors affecting spoilage.
27. Explain the biochemical constitution of fish.
28. Explain the non-protein nitrogenous compounds in fishes.
29. What is isomerism ? Give its types with examples.
30. Explain the post mortem changes occurring in fish muscle.
31. What is the role of bacteria, temperature, pH, oxygen and salinity in fish spoilage ?

(6 × 4 = 24 marks)

Section D

*Answer any two questions.
Each question carries 15 marks.*

32. Explain principles and methods involved in the separation and analysis of fish muscle constituents.
33. Comment on fatty acid composition of fish liver and body. Explain auto-oxidation of fatty acids, rancidity, phospholipids, lipoproteins, pro-oxidants and anti-oxidants.
34. Explain different phases of fish spoilage.
35. Explain the post mortem changes occurring in fish muscle.

(2 × 15 = 30 marks)

SECOND SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

Fish Processing Technology

SDC 2A Q05—FOOD SAFETY IN SEA FOOD INDUSTRY

Time : Three Hours

Maximum : 80 Marks

Section A*Answer all question.*

1. Expand CAP
2. It is important to prepare food safely because :
 - a) It helps to prevent food poisoning.
 - b) Prepared food looks better.
 - c) Prepared food tastes better.
3. Expand HACCP
4. State true or false. Following Good Laboratory Practices should only be used when your instructor reminds the class to do so.
5. The minimum time food workers should wash their hands is :
 - a) 5 seconds.
 - b) 20 seconds.
 - c) 30 seconds.
 - d) 40 seconds.
6. Expand CCP.
7. Expand ASP.
8. Expand ISO
9. To maintain freshness and ensure a safe and hygienic product, seafood should be :
 - a) Kept as cold as possible with minimum temperature variation.
 - b) Prepared as quickly and hygienically as possible.
 - c) Be stored separately to other food groups or below cooked foods.
 - d) All of the above.

Turn over

10. Which antioxidant is abundant in citrus fruit ?
- a) Carotenoid. b) Ascorbic acid.
c) Tocopherol. d) Flavonoid.

(10 × 1 = 10 marks)

Section B

Answer any eight questions.

11. Significance of seafood safety and quality control.
12. What are the risks of eating seafood contaminated with mercury and PCBs ?
13. What are the Limitations of end-product testing ?
14. What are contaminants ?
15. What is MAP ?
16. Aflatoxins.
17. What about mercury in canned tuna ?
18. What are the extrinsic parameters that affect microbial growth ?
19. What is TVBN ?
20. What is botulism ?
21. Describe identification of *E. coli*.
22. What is packaging and its types ?

(8 × 2 = 16 marks)

Section C

Answer any six questions.

23. Explain patulin found in food.
24. Explain identification and confirmation steps of *Staphylococcus*.
25. What is Good Laboratory Practices (GLP) ?
26. Explain Food borne pathogens.
27. What are the intrinsic parameters that affect microbial growth ? Explain.

28. Explain source of micro-organism to fish.
29. What are the risks of eating seafood contaminated with mercury and PCBs ?
30. Explain identification and confirmation steps of Salmonella.
31. Explain micro-biological standards in seafood industry.

(6 × 4 = 24 marks)

Section D

Answer any two questions.

32. Potential health hazards and risks associated with fish products.
33. Status of World seafood production, utilization, consumption and trade.
34. Comment on Bacteria of public health significance in fish/fishery products/environments.
35. Explain microbiological standards in seafood industry.

(2 × 15 = 30 marks)

SECOND SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

Fish Processing Technology

GEC 2FM 02—FOOD MICROBIOLOGY

Time : Three Hours

Maximum : 80 Marks

Section A

*Answer all questions.**Each question carries 1 mark.*

1. The time required to kill micro-organism at a given lethal temperature is known as :
 - a) Z value.
 - b) D value.
 - c) C value.
 - d) None of the above.
2. The target micro-organism in canning is :
 - a) *Clostridium botulinum*.
 - b) *Streptococcus thermophilus*.
 - c) PA 3679.
 - d) *Lactobacillus bulgaricus*.
3. *Clostridium botulinum* mainly result in spoilage of _____ foods.
 - a) High acid Food.
 - b) Acidic Food.
 - c) Medium acid Food.
 - d) Low acid Food.
4. The temperature resistance of micro-organism in high acid food is :
 - a) High.
 - b) Medium.
 - c) Low.
 - d) No effect.
5. In bread manufacturing, alcoholic fermentation is carried out by :
 - a) *Streptococcus thermophilus*.
 - b) *Saccharomyces cerevisiae*.
 - c) *S. carlsbergensis*.
 - d) *Lactobacillus bulgaricus*.
6. Thermophiles grows at :
 - a) 8 to 45°C.
 - b) 25 to 30°C.
 - c) 0 to 20°C.
 - d) 50-60°C.

Turn over

7. The growth of aerobic food spoilage and pathogenic micro-organisms can be suppressed by :
- a) Humectants.
 - b) Exhausting.
 - c) Both (a) and (b).
 - d) None of above.
8. Pasteurization is the heat treatment designed primarily to kill :
- a) Vegetable forms of micro-organisms.
 - b) All form of micro-organisms.
 - c) Spore.
 - d) None of above.
9. Lactic acid bacteria include :
- a) *Lactococcus lactis*.
 - b) *Lactococcus cremoris*.
 - c) *Bifido bacterium*.
 - d) All above.
10. *Acetobacter aceti* converts _____ into acetic acids.
- a) Ethyl alcohol.
 - b) Glucose.
 - c) Methyl alcohol.
 - d) Starch.

(10 × 1 = 10 marks)

Section B

Answer any **eight** questions.

Each question carries 2 marks.

11. What happens during lag phase of bacterial growth cycle ? Mention briefly.
12. What is a bacteriocidal agent ? Give an example.
13. Define bacteriostatic agent. Give an example.
14. What is complex culture media ? Give example.
15. Define generation time of bacteria.
16. Define Disinfection. Name some disinfectants.
17. What is meant by food spoilage ?
18. What is Salmonellosis ?
19. Write any *two* international food laws.

20. What are Heterotrophs ?
21. Name four important bacteria associated with seafood.
22. Name some spoilage microorganisms of milk.

(8 × 2 = 16 marks)

Section C

*Answer any six questions.
Each question carries 4 marks.*

23. Spoilage of canned foods.
24. Food preservation using dehydration.
25. Log phase of a bacterial growth curve.
26. Importance of sanitation and hygiene in food science.
27. Effect of temperature on growth of microbes.
28. HACCP
29. Morphological forms of bacteria.
30. What is Disinfection ? Explain various methods of disinfection ?
31. Food preservation using radiation.

(6 × 4 = 24 marks)

Section D

*Answer any two questions.
Each question carries 15 marks.*

32. Explain methods of isolation and identification of bacteria related to food.
33. Explain foodborne diseases.
34. What is Virus ? Classify viruses. Explain the strategies adopted in laboratory diagnosis of viruses.
35. Explain physical methods of Food Preservation.

(2 × 15 = 30 marks)

SECOND SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

Fashion Technology

SDC2FT06—APPAREL MACHINERY AND EQUIPMENTS

Time : Three Hours

Maximum : 80 Marks

Section A

I. Answer *all* the questions. Each question carries 1 marks :

- 1 Sewing machines that use a _____ feed mechanism have two independent sets of feed dogs.
 - (a) Differential.
 - (b) Drop.
 - (c) Walking foot.
 - (d) Needle.
- 2 Non-linear shapes are cut easily using :
 - (a) Electric motor.
 - (b) Lubricant.
 - (c) Handle.
 - (d) Base plate.
- 3 Correct ply direction does not depend on :
 - (a) Fabric type.
 - (b) Cutting equipment.
 - (c) Fabric pattern.
 - (d) Cutting equipment
- 4 Holes, stains, colour variation are the examples of _____.
 - (a) Fabric tension.
 - (b) Fabric faults.
 - (c) Fabric types.
 - (d) Fabric folds.
- 5 In a flat spread, all piles are of same _____.
 - (a) Length.
 - (b) Type.
 - (c) Texture.
 - (d) Weight.

Turn over

- 6 A _____ is a small package that carries the bottom sewing thread and is fitted onto the bobbin case :
- (a) Spool. (b) Thread guide.
(c) Bobbin. (d) Clamp.
- 7 _____ is the ultimate end of the product, which combines with the point in defining the penetration performance of the needle.
- (a) Tip. (b) Point.
(c) Corner. (d) Edge.
- 8 _____ is the part of a sewing machine on which the lower thread is wound :
- (a) Bobbin winder. (b) Bobbin cover.
(c) Bobbin case. (d) Bobbin.
- 9 Stitch class _____ is called as multi thread chain stitch.
- (a) 100. (b) 200.
(c) 300. (d) 400.
- 10 The process by which the unwanted creases and wrinkles are removed from the garments is called _____.
- (a) Stitching. (b) Finishing.
(c) Pressing. (d) Packing.

(10 × 1 = 10 marks)

Section B

II. Answer any *eight* of the following. Each question carries 2 marks :

- 11 What are air flotation tables ?
- 12 Write a note on methods of spreading.
- 13 Describe the factors affecting the number of piles for fabric spreading.
- 14 What is a decorative seam ?

- 15 What is marker planning ?
- 16 What are the disadvantages of hand shears in the context of fabric cutting in the apparel industry ?
- 17 What is post bed machine ?
- 18 What is needle plate ?
- 19 List any *two* types of seams.
- 20 What is feed dog ?
- 21 What are machine variables ?
- 22 Describe zig zag foot.

(8 × 2 = 16 marks)

Section C

III. Answer any *six* of the following. Each question carries 4 marks :

- 23 Illustrate A needle and label its parts.
- 24 Explain the process of bobbin winding.
- 25 Write a note on computerized sewing machines.
- 26 Write apparel industry and their departments.
- 27 Write a note on types of presser foot.
- 28 Explain the stitch mechanism.
- 29 Write a note on types of sewing needles.
- 30 Write a note on different types of stitch class.
- 31 Explain any *two* types of seams.

(6 × 4 = 24 marks)

Turn over

Section D

IV. Answer any *two* of the following. Each question carries 15 marks :

- 32 Explain in detail the fabric cutting in apparel industry.
- 33 What do you mean by a sewing machine ? Explain the basic parts in detail with the help of neat diagram.
- 34 Explain the term feed mechanism ? Explain the different types of feed mechanisms in details.
- 35 What do you mean by pressing ? Explain in detail.

(2 × 15 = 30 marks)

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SECOND SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

Digital Film Production

DFC 2FP 07—ADVANCED CINEMATOGRAPHY

Time : Three Hours

Maximum : 80 Marks

Part A

*Answer any ten questions.
Each question carries 1 mark.*

- | | |
|---------------|------------------|
| 1. Montage. | 2. ND filter. |
| 3. Iris. | 4. Celluloid. |
| 5. RED. | 6. Aspect Ratio. |
| 7. DVI. | 8. Jib. |
| 9. Camcorder. | 10. CCU. |

(10 × 1 = 10 marks)

Part B

*Answer any eight questions.
Each question carries 2 marks.*

- | | |
|--------------------------|---------------------|
| 11. 360 Rule. | 12. Light meter. |
| 13. Cut in Shot. | 14. Set properties. |
| 15. Panning and tilting. | 16. Fill light. |
| 17. White balance. | 18. Composition. |
| 19. Focal length. | 20. ISO. |
| 21. Diffusers. | 22. Framing. |

(8 × 2 = 16 marks)

Turn over

Part C

*Answer any six questions.
Each question carries 4 marks.*

23. Define 180 degree rule.
24. Differentiate photography and cinematography ?
25. Elaborate frame, scene, shot and sequence ?
26. What are the types of head in a tripod ? Explain ?
27. Explain different types of filters ?
28. Three point lighting.
29. Discuss different types of camera angles ?
30. Prepare a multi-camera production plan for an entertainment programme in Malayalam television channel ?
31. Detail on different types of camera ?

(6 × 4 = 24 marks)

Part D

*Answer any two questions.
Each question carries 15 marks.*

32. A cinematographer is not just a camera operator. Comment ?
33. Explain different types of shot with examples ?
34. Cinematography is an art form of the viewpoint of a camera person. Do you agree ? Explain ?
35. Lighting enhances on screen human perceptions of vision. Comment ?

(2 × 15 = 30 marks)

C 5659

(Pages : 2)

Name.....

Reg. No.....

SECOND SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

Digital Film Production

DFC 2FP 06—ADVANCED DIGITAL PHOTOGRAPHY

Time : Three Hours

Maximum : 80 Marks

*Answer all questions.
Each question carries 1 mark.*

1. Aperture is measure in _____.
2. The word photography means _____.
3. Diffused light creates _____.
4. What are the two types of sensors ?
5. What is the common range of lens.
6. What is ASA stands for _____.
7. Block lens is also called _____.
8. World photography day is _____.
9. Who is the father of photography ?
10. Parallax error is due to _____.

(10 × 1 = 10 marks)

*Answer any eight questions.
Each question carries 2 marks.*

11. Noise.
12. Auto focussing.
13. Three basic lighting.
14. Low key lighting.
15. Digital photography.
16. White balance.

Turn over

17. SLR camera.
18. Flash.
19. Pop up.
20. Resolution.
21. Fill light.
22. Exposure.

(8 × 2 = 16 marks)

Answer any six questions.

Each question carries 4 marks.

23. Explain candid photography.
24. Photography is an art. Explain.
25. What are the functions of TLR camera.
26. What are the primary and secondary colours.
27. Define rule of third.
28. Differentiate colour and light.
29. Short notes on any three types of photography.
30. Briefly explain the history of photography.
31. Explain the photographic composition.

(6 × 4 = 24 marks)

Answer any two questions

Each question carries 15 marks.

32. What is wild life photography ? Write a brief note on any famous wildlife photographer you know.
33. The earth is an art. Photography is just a witness. Do you agree ? Explain.
34. Define Photography. Differentiate analogue and digital photography. What are the advantages of digital photography.
35. Explain any of the photo editing software.

(2 × 15 = 30 marks)

SECOND SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

Digital Film Production

DFC 2FP 05—INTRODUCTION TO CINEMATOGRAPHY

Time : Three Hours

Maximum : 80 Marks

Part A

*Answer any ten questions.
Each question carries 1 mark.*

1. What is Racking Process ?
2. What is an f-stop ?
3. What is 30 degree rule ?
4. What is Tonal montage ?
5. Master shot.
6. What is Two shot ?
7. What is a mid long shot ?
8. What is a eye level shot ?
9. What is Whip Pan ?
10. What is Cut in Shot ?

(10 × 1 = 10 marks)

Part B

*Answer all eight questions.
Each question carries 2 marks.*

1. What is meant by Cinematography ?
2. What are continuity concepts ?
3. What is the use of tracking and crane shots ?
4. Write on various camera angles.
5. Difference between composite and component video.
6. What is the difference between Depth of field and Depth of focus ?
7. How will you shoot for documentary ?
8. Digital film making has affected the film making process. Comment.

(8 × 2 = 16 marks)

Turn over

Part C

*Answer any six out of nine.
Each question carries 4 marks.*

1. What are the various types of filters used in cinematography ?
2. How will you shoot for an ad film ?
3. Explain the uses of Pan, Crane, Dolly and Track shots.
4. How will arrange a shooting setup for a blue screen ?
5. How can you create impacts on visuals ?
6. Why Canted shots are used more in latest movies ?
7. A cinematographer should be a good director. Comment.
8. Explain the roles of assistant cameraman.
9. Analyze the growth of Indian cinema in terms of cinematography.

(6 × 4 = 24 marks)

Part D

*Answer any two out of four.
Each question carries 15 marks.*

1. Write on Composition and camera angles.
2. Write on three point and five point lighting.
3. A cinematographer is not just a camera operator. Explain.
4. Digital cameras have made the film making easier. Explain.

(2 × 15 = 30 marks)

SECOND SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

Digital Film Production

GEC 2HA 05—HISTORY OF ARTS

Time : Three Hours

Maximum : 80 Marks

*Answer all questions.**Each carries 1 mark.*

- 1 Define optical colour.
- 2 Which are the colours using in Kerala's traditional Mural painting ?
- 3 Define Impressionism.
- 4 Define Arbitrary colour.
- 5 What is Diagonal Composition ?
- 6 The greatest achievement of Greek art is its _____.
- 7 Who created the painting Mona Lisa ?
- 8 Hatching and cross hatching lines are used to create _____.
- 9 Form has _____ and _____.
- 10 Who invented Gothic style ?

(10 × 1 = 10 marks)

*Answer any eight questions.**Each carries 2 marks.*

- 11 What is perspective ? Give an example.
- 12 Who are the notable painters of Greek Art in 5th century B.C.
- 13 Architecture.
- 14 Dada Art Movement.
- 15 Constructivism.
- 16 Post Modern Art.

Turn over

- 17 What is value in art ?
- 18 Vertical and Horizontal line.
- 19 Romanticism.
- 20 Aquatint.
- 21 Geometric Art.
- 22 Mono colour.

(8 × 2 = 16 marks)

Answer any six questions.

Each carries 4 marks.

- 23 Michelangelo Buonarroti.
- 24 Short note on Performance Art.
- 25 How to prepare a wall for mural painting.
- 26 Draw a perspective image.
- 27 Short note on Albert Bierstadt.
- 28 What is Byzantine Art ?
- 29 Contributions of Theodore Gericault.
- 30 Differentiate Core shadow and Cast shadow.
- 31 Write a short note on pottery painting in Greek art.

(6 × 4 = 24 marks)

Answer any two questions.

Each carries 15 marks.

- 32 Illustrate a story board with minimum 6 frames about advertisement of any product.
- 33 Explain on Mughal Art period.
- 34 Briefly explain on Classical Art with example.
- 35 Describe the major Modern Art Movements of 20th century.

(2 × 15 = 30 marks)

C 5656

(Pages : 3)

Name.....

Reg. No.....

SECOND SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

Broadcasting and Journalism

SDC 2BJ 06—RADIO BROADCASTING

(2018 Admissions)

Time : Three Hours

Maximum : 80 Marks

Section A (Objective Type Questions)

Answer all questions.

Each question carries 1 mark.

1. A sheet of paper with the order of stories in a radio news bulletin is called _____.
 - a) Script.
 - b) Line-up.
 - c) Cue Card.
 - d) All of these.
2. Equalization means _____.
 - a) Adjusting various audio frequencies.
 - b) Adjusting the volume.
 - c) Adjusting the length of music.
 - d) None of the above.
3. The host of radio music program is called _____.
4. News on phone is a service provided by _____.
 - a) Club FM.
 - b) Radio Mirchi.
 - c) All India Radio.
 - d) BBC.
5. The Tonal characteristic of the sound wave is known as _____.
 - a) Frequency.
 - b) Pitch.
 - c) Amplitude.
 - d) Timbre.
6. The voice of the newsmakers or the actual recording of news event or person(s) involved are called _____.
 - a) Voice over.
 - b) Actualities.
 - c) Sound bite.
 - d) Bothe (a) and (b).

Turn over

7. DAB Stands for :
- a) Digital Analog Broadcasting. b) Digital Audio Broadcasting.
c) Daily Audio Broadcasting. d) Digital Audio Bridge.
8. The musical identity of a radio station is called as _____.
- a) Jingle. b) Promo.
c) Signature Tune. d) Station ID.
9. Paid advertising announcement in Radio is generally called :
- a) Advertorial. b) Commercial.
c) Copy. d) None of the above.
10. Illegal or non-regulated radio transmission is known as _____.
- a) Internet Radio. b) Pirate Radio.
c) Long wave Radio. d) Short wave Radio.

(10 × 1 = 10 marks)

Section B (Short Answer Questions)

*Answer any **eight** of the following.*

Each question carries 2 marks.

1. Writing for the ear.
2. Vividh Bharathi.
3. Signature Tune.
4. Radio Studio.
5. Radio Drama.
6. On Mic and Off Mic.
7. News Bulletin.
8. Live Room.
9. Intimacy.
10. Fade off.

11. DJ.
12. Continuity Announcer.

(8 × 2 = 16 marks)

Section C (Short Essays)

*Answer any six of the following
Each question carries 4 marks.*

1. What are the requisites for conducting a radio interview ?
2. Write a note on radio news magazine programs.
3. Commentators are wordsmiths. Do you agree with this ? Justify your answer.
4. What are the major ingredients of a news bulletin ?
5. Write a note on the characteristics of broadcast news.
6. Why should radio script be written for the ear ? Explain.
7. Spoken Word, Music and Sound effect are the most important ingredient of any radio program. Justify.
8. Write a short essay on Radio Drama.
9. Differentiate between the job profiles of a radio announcer and radio jockey.

(6 × 4 = 24 marks)

Section D (Essays)

*Answer any two of the following
Each question carries 15 marks.*

1. Compare the Programme formats of a private FM Radio with AIR Programmes.
2. Discuss in detail the process of radio news editing.
3. Prepare a 10-minute script for a news bulletin covering different types of news items of choice.
4. What are the tasks of a newscast/ news bulletin producer ?

(2 × 15 = 30 marks)

SECOND SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

Broadcasting and Journalism

SDC2BJ05—AUDIO RECORDING, EDITING AND SOUND DESIGN

(2018 Admissions)

Time : Three Hours

Maximum : 80 Marks

Section A (Objective Type Questions)

*Answer all questions.
Each question carries 1 mark.*

1. Fill the pair as per the given relation :
 - (a) Amplitude : Volume
 - (b) Frequency : _____.
2. What is the file format of a WhatsApp audio ?
 - (a) MP3.
 - (b) AAC.
 - (c) APUS.
 - (d) AMR.
3. Pick the odd one out :
 - (a) Audio Editing.
 - (b) Audio Recording.
 - (c) Audio processing.
 - (d) Audiology.
4. Boom microphone is used mostly for :
 - (a) Recording on location sounds.
 - (b) Recording studio sounds.
 - (c) Foley recording.
 - (d) None of the above.
5. CODEC stands for _____.
6. Choose the audio file format having highest sound quality :
 - (a) MP3.
 - (b) AAC.
 - (c) WAV.
 - (d) OPUS.

Turn over

7. EQ stands for _____.
8. _____ is an example for audio editing software.
- (a) Adobe Audio Studio. (b) Adobe Audition.
(c) Adobe Prelude. (d) Adobe Audist.
9. Phantom Power source can be :
- (a) Camera. (b) Mixer.
(c) Audio Recorder. (d) All the above.
10. SFX Stands for _____.
- (a) Sound Effects. (b) Special Effects.
(c) Sound for Experience. (d) Sounds for effects.

(10 × 1 = 10 marks)

Section B (Short Answer Questions)

*Answer any eight of the following.
Each question carries 2 marks.*

1. RF Microphone.
2. Lavalier.
3. Condenser Microphone.
4. Cool Edit Pro.
5. SNR.
6. Voiced Sounds.
7. Pitch.
8. Echo.
9. Muted Track.
10. Audio Filters.
11. Motorized Console.
12. Pop Filter.

(8 × 2 = 16 marks)

Section C

Answer any six of the following.

Each question carries 4 marks.

1. Differentiate between Frequency, Amplitude and Wave length of a sound wave.
2. Write a note on different types of microphone cables used in sound recording process in different contexts.
3. Explain the process of human auditory system with diagrammatic representations.
4. Differentiate between Echo and Reverb.
5. What is different between Reflection and Refraction ? What effects do they produce for a sound wave ?
6. Compare Mono and Stereo recording.
7. What is meant by Internet Radio ? What are the differences of Internet Radio from Radio Broadcast in terms of production and distribution ?
8. RF Microphones can be effectively used in different context. Explain the pros and cons of RF Microphone in different contexts.
9. Relate the following pairs and explain in terms of audio recording and editing :
 - (a) Frequency and Pitch.
 - (b) Amplitude and Loudness.

(6 × 4 = 24 marks)

Section D

Answer any two of the following.

Each question carries 15 marks.

1. What are the major audio effects available in professional Audio Editing software ? How they are helpful for the post production of audio ? Discuss various audio effects and their usage in audio editing process.
2. Distinguish among reflection, refraction and diffraction of sound wave with diagrammatic representations and explain its functions in sound propagation.

Turn over

3. Compare any two audio recording and editing software of your choice; discuss the advantages, limitations and special features of both.
4. Post production is where the recorded sound is made into a wonderful listening experience. Discuss the role of post-production technologies and impacts on sound design including various surrounding techniques.

(2 × 15 = 30 marks)

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SECOND SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

Banking Finance Service and Insurance

SDC 2BF 06—COST ACCOUNTING

Time : Three Hours

Maximum : 80 Marks

Part A*Answer all questions.**Each question carries 1 mark.*

1. Factory cost is the result of adding factory overhead to _____.
 - a) One.
 - b) Two.
 - c) Three.
 - d) Prime cost.
2. Which of the following method is used in the control of spare parts ?
 - a) ABC analysis.
 - b) HML analysis.
 - c) JIT.
 - d) VED analysis.
3. _____ refers to any kind of material loss which has no recoverable value.
 - a) Waste.
 - b) Scrap.
 - c) Spoilage.
 - d) Defectives.
4. Cost of idle time arising due to non-availability of raw materials is :
 - a) Charged to costing p/l a/c.
 - b) Charged to factory overhead.
 - c) Recovered by inflating the wage rate .
 - d) None of these.
5. Which one of the following is factory overhead ?
 - a) Bad debt.
 - b) Power & fuel.
 - c) Audit fees.
 - d) Ware house expenses.
6. Canteen expenses are apportioned on the basis of :
 - a) Floor area.
 - b) Number of employees .
 - c) Labour hours.
 - d) Machine hours.

Turn over

7. Which of the following rate is more suitable in a mechanized industry ?
- a) Labour hour rate.
 - b) Machine hour rate.
 - c) Dual hour rate.
 - d) None of these.
8. Closing stock of finished goods is valued at _____ Per unit.
- a) Factory cost.
 - b) Prime cost.
 - c) Cost of production.
 - d) Cost of sale.
9. _____ refers to any kind of material loss which has no recoverable value.
- a) Waste.
 - b) Scrap.
 - c) Spoilage.
 - d) Defectives.
10. Time spent by the worker on each job during a week is recorded on :
- a) Time card.
 - b) Daily muster roll.
 - c) Job card.
 - d) None of these.

(10 × 1 = 10 marks)

Part B

Answer any eight questions, not exceeding a paragraph of 50 words.

Each question carries 2 marks.

- 11. What are the procedures of job costing ?
- 12. How is normal loss treated in process accounts ?
- 13. What is zero based budgeting ? What are the advantage and disadvantages ?
- 14. Distinguish between overhead apportionment and overhead absorption.
- 15. What is FIFO method ? What are its advantage and disadvantages ?
- 16. What are the advantages of classification and codification of materials ?
- 17. What are the different types of overhead ?
- 18. What is cost allocation ?
- 19. What is a tender ? How is it prepared ?
- 20. Define flexible budget.
- 21. What is a simple cost unit ?
- 22. What is a budget committee ?

(8 × 2 = 16 marks)

Part C

Answer any six questions in a page of 50 words.
Each question carries 4 marks.

23. Product X is obtained after it passes through three distinct processes. Following particulars relate to the processes :

	Total	Process I	Process II	Process III
Material	33738	10400	7920	15418
Direct wages	36000	8000	12000	16000
Production Overhead	36000			
Actual output (units)		950	840	750
Normal loss		5%	10%	15%
Scrap value per unit		8	16	20

1000 units@Rs. 12 per unit were introduced into process I. production overhead is to be distributed as 100% on direct wages.

Prepare process accounts, normal loss account and abnormal loss or gain account.

24. Distinguish between job costing and process costing ?
25. A manufacture buys certain equipment from outside suppliers at Rs. 3 per unit. Total annual needs are 800 units. The following further data are available :

Annual return on investment 10%

Rent, insurance, taxes per unit per year Rs. 1

Cost of placing an order Rs. 100

Determine the EOQ ?

26. A company has four departments. A, B and C are production departments and D is a service department. Other particulars are given below :

Rent	5000
Repairs	4000
Depreciation	2250
Lighting	600
Power	6500
Supervision	7500
Employer's liability for insurance	750
Fire insurance (stock)	2500

Turn over

The following information is available in respect of the four departments :

	A	B	C	D
Area (Sq.ft.)	1500	1100	900	500
No. of employees	40	30	20	10
Total wages (Rs.)	18000	12000	9000	6000
Value of plant (Rs.)	80000	60000	40000	20000
Value of stock (Rs.)	30000	18000	12000	-----

Selecting the most appropriate basis apportion various items of cost among various departments.

27. Following information has been taken from the costing records of a company in respect of job no : 325

Direct materials : 7500

Wages :

Dept. A 100 hours@ Rs. 6 per hour

Dept. B 50 hours@ Rs. 4 per hour

Dept. C 40 hours@ Rs. 3 per hour

Variable overhead for these three departments were estimated as follows :

Dept. A Rs. 6,000 for 3000 hours

Dept. B Rs. 3,000 for 2000 hours

Dept. C Rs. 1,500 for 1500 hours

Fixed overhead is estimated as Rs. 30,000 for 20,000 normal working hours.

You are required to calculate the cost of the job and price to be quoted to give a profit of 25% on selling price.

28. From the following particulars relating to a contract for the year ended 31st December 2010.

Prepare contract account :

Material sent to contract site	51180
Labour	46610
Cost of plant at site	10000
Establishment expenses	5300

Material return to stores	200
Material on hand (31-12-2010)	1234
Accrued wages	1249
Value of plant on (31-12-2010)	8800
Work certified	107000
Work uncertified	3100

The contract price was Rs. 1,50,000. payment of Rs. 99,000 was received from the contractee.

29. Following information relates to two processes A and B. prepare process accounts and other related accounts.

	Process A	Process B
Materials	40000	5000
Labour	15000	15000
Overheads	8400	11710
Input(units)	20000	17500
Normal loss	10%	4%
Sale of waste per unit	2	3

There was no opening or closing stock or work in progress. Final output from process B was 17000 units.

30. Following are the budgeted expenses for the production of 10000 units of a product :

	Per unit
Materials	75
Labour	15
Variable overhead	20
Fixed overheads (100000)	10
Direct expenses (variable)	10
Selling expenses (10% fixed)	12
Distribution expenses (20%)	8
Administration expenses (Rs.60000)	6
	156

Prepare a budget for 6000 units and 8000 units. Administration expenses are fixed for all level of production.

Turn over

31. From the following information calculate total kilometers and total passenger kilometers :

No. of buses	6
Days operated in the month	25
Trip made by each bus	4
Distance of route	25 kms (one side)
Capacity of bus	50 passengers

Normal passengers travelling 80% of capacity

(6 × 4 = 24 marks)

Part D

Answer any **two** questions, not exceeding **four** pages.

Each question carries 15 marks.

32. What is standard costing ? What are the features and advantages and disadvantages ?

33. From the following information prepare cash budget for the three month April - June 2010 :

Month	Sales	Purchases	Wages	Expenses
February	60000	45000	7000	5000
March	90000	55000	8000	7000
April	80000	60000	9000	6000
May	100000	50000	12000	9000
June	110000	65000	10000	10000

Other information :

- Cash in hand on 1st April 2010 is Rs. 20,000.
- Period of credit allowed by supplier - two months.
- 25% of the sales is for cash and the period of credit allowed to customers for credit sale - one month.
- Delay in payment of wages and expenses - one month.
- Income tax Rs. 25,000 is to be paid in June 2010.

34. ABC Ltd were engaged on one contract during the year. The contract price was Rs. 6,00,000. The trial balance on 31st December is given below :

Share capital	120000
Creditors	12000
Land & building	48000
Bank	16500

Contract account :

Materials	112500		
Plant	30000		
Wages	150000		
Expenses	15000		
Cash received (80% of work certified)	240000	372000	372000

Of the plant and materials charged to the contract plant costing Rs. 4,500 and material costing Rs. 3,600 were destroyed by fire. On 31st December plant which cost Rs. 6,000 was returned to store. The value of materials on site was Rs. 4500. Cost of uncertified work was Rs. 3,000. Charge 10% depreciation on plant. Prepare contract account and balance sheet.

35. Calculate the earnings of workers X,Y and Z under straight piece rate system and Merrick's differential piece rate system :

Normal rate per hour : Rs. 18

Standard time per unit : 1 minute

Output per day of 8 hours :

X : 380 units

Y : 450 units

Z : 50 units

(2 × 15 = 30 marks)

SECOND SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

Banking Finance Service and Insurance

SDC2BF05—ORGANISATIONAL BEHAVIOUR AND COMMUNICATION

Time : Three Hours

Maximum : 80 Marks

Part A

*Answer all questions.
Each question carries 1 mark.*

1. Communication from subordinates to superior is known as :
 - (a) Formal communication.
 - (b) Vertical communication.
 - (c) Downward communication.
 - (d) Upward communication.
2. Which approach is based on the premises that methods or behaviour which work efficiently in one situation fail in other ?
 - (a) Human resources approach.
 - (b) Productivity approach.
 - (c) Contingency approach.
 - (d) System approach.
3. The interview is systematically planned in advance is called :
 - (a) Structured interview.
 - (b) Unstructured interview.
 - (c) Core interview.
 - (d) Panel interview.
4. Individuals agreeing and co-operating with others is called :
 - (a) Extroversion.
 - (b) Emotional stability.
 - (c) Agreeableness.
 - (d) Consciousness.
5. The changes relating to the technological developments, information processing and automation is known as :
 - (a) Strategic change.
 - (b) Structural change.
 - (c) Process oriented change.
 - (d) People oriented change.

Turn over

6. _____ refers to the situation in which group interest comes first.
- (a) Individualism. (b) Collectivism.
(c) Power distance. (d) Group cohesiveness.
7. Operant conditioned principle is proposed by :
- (a) Ivan Pavlov. (b) Kohler.
(c) B. F. Skinner. (d) Robinson.
8. _____ Tests are measure the skill or training which the applicant possesses at the time of testing.
- (a) Proficiency test. (b) Aptitude test.
(c) Movement test. (d) Interest test.
9. _____ is a tendency to judge people based on the perception of the group to which he belongs.
- (a) Projection. (b) Stereotyping.
(c) First impression. (d) Mental makeup.
10. _____ team of employees who perform rightly related or interdependent jobs and to take on many of responsibilities of their supervisors.
- (a) Problem solving teams. (b) Cross functional teams.
(c) Self-managed teams. (d) Virtual teams.

(10 × 1 = 10 marks)

Part B

Answer any eight questions, not exceeding a paragraph of 50 words.

Each question carries 2 marks.

11. What do you mean by ranking method ?
12. What is planned change ?
13. What are the key elements of organisational behavior ?
14. What are hereditary factors of personality ?

15. What do you mean by uncertain avoidance ?
16. What is collegial model ?
17. What is transmission channel ?
18. What is stress interview ?
19. What is upward communication ?
20. Define perception.
21. What do you mean by paternalistic style leader ?
22. What is stereotyping ?

(8 × 2 = 16 marks)

Part C

Answer any six questions in a page of 50 words.

Each question carries 4 marks.

23. What are the types of communication ?
24. Describe the nature of human resources management.
25. What are the elements of organisational behavior ?
26. Explain Maslow's need hierarchy.
27. Explain on the job training and of the job training.
28. Explain classical conditioning theory.
29. Explain reasons for group formation.
30. Explain planned changes process.
31. What is learning ? Explain its nature.

(6 × 4 = 24 marks)

Turn over

Part D

Answer any two questions, not exceeding four pages.

Each question carries 15 marks.

32. Define performance appraisal and also explain its methods and process
33. Define personality. Explain its determinants and traits and also explain the role of personality in the organization.
34. What do you understand by organisational change? Explain its nature, types and forces of change.
35. What is leadership, explain its types and also explain the theories of leadership.

(2 × 15 = 30 marks)

SECOND SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

Agriculture

SDC 2AG 06—FUNDAMENTALS OF SEED TECHNOLOGY

Time : Three Hours

Maximum : 80 Marks

Section A

*Answer all questions.**Each question carries 1 mark.*

1. True to type nature of the seed is _____.
2. Objectionable weeds of paddy.
3. Certified seed.
4. Tag colour of breeder seed.
5. Four generation model of seed multiplication.
6. Define off-types.
7. Define isolation distance.
8. Expand CGMS.
9. Tetrazolium test is done to determine _____.
10. The identification and removal of 'off-type' plants from seed crops termed as _____.

(10 × 1 = 10 marks)

Section B

*Answer any eight of the following questions.**Each question carries 2 marks.*

11. Seeds as per Seed Act (1966).
12. Physiological quality in seeds.
13. Heterosis.
14. Self-incompatibility.
15. Emasculation and dusting.

Turn over

16. Differentiate incomplete tasseling and shedding tasseling.
17. Physiological maturation.
18. Write a brief note on seed packing.
19. Storage conditions for seed storage.
20. Define : a) breeder seed b) foundation seed.
21. Measurement of hybrid vigour.
22. Differentiate single cross hybrid and double cross hybrid.
23. Match the following :

a) Period from physiological maturity to harvest	i) On-farm segment
b) Period from harvest to packaging	ii) Post-maturation
c) Period from packaging to distribution	iii) Bulk seed segment
d) Period from purchase to planting of seed	iv) Packaged seed segment

(8 × 2 = 16 marks)

Section C

*Answer any six of the following questions.
Each question carries 4 marks.*

24. Describe detasseling.
25. Seed production in tomato.
26. Explain plant breeder's right.
27. Types of storage for seeds.
28. Classification of packing materials for seed storage.
29. Write a brief note on seed village concept.
30. Briefly explain the role of growth regulators in restoring seed viability.
31. Write a short note on three way cross.

(6 × 4 = 24 marks)

Section D

*Write an essay on any two of the following questions.
Each question carries 15 marks.*

32. Hybrid seed production in maize.
33. Write a brief essay on storage godowns and their maintenance.
34. Write a brief essay on seed dormancy and the methods to breaking of seed dormancy.
35. Write a brief essay on Seed certification.

(2 × 15 = 30 marks)

SECOND SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

Agriculture

SDC 2A G05—PLANTATION CROPS, SPICES AND FRUITS

Time : Three Hours

Maximum : 80 Marks

(A) Very short/ Object answer question :

- 1 Katte disease is caused by _____.
- 2 Cardamom belongs to family _____.
- 3 IISR rajetha and mahima is a variety of _____.
- 4 Quick wilt in pepper is caused by _____.
- 5 Pepper is propagated vegetatively by _____.
- 6 Kerasangara hybrid of coconut is obtained by the cross between _____ and _____.
- 7 Spacing adopted for coconut in triangular system of planting is _____m.
- 8 Rubber Research Institute of India is located at _____.
- 9 Swollen pedicel of cashew is called _____.
- 10 Cutting pseudostem of sucker at ground level followed by application of kerosene is called _____.

(10 × 1 = 10 marks)

(B) Short answer question. Answer any eight questions :

- 11 Steps involved in selection of mother plant in coconut for propagation.
- 12 Define young budding.
- 13 Air layering in cashew.
- 14 Types of suckers in banana.
- 15 Mulching, shading and white washing in rubber.
- 16 Varieties and hybrids of mango.
- 17 Define black heart in pineapple.

Turn over

- 18 Manuring in coffee.
- 19 Write note on tapping implements.
- 20 Production of quality planting material in cardamom.
- 21 List out important pests in rubber.
- 22 Serpentine method of layering in pepper.

(8 × 2 = 16 marks)

(C) Short essay. Answer any *six* questions :

- 23 Describe harvesting in coconut.
- 24 Write detailed procedure on tapping in rubber.
- 25 Global scenario of fruit production and export of banana.
- 26 Steps involved in tissue culture banana production.
- 27 Describe flowering and ripening in mango.
- 28 Propagation methods in pepper.
- 29 Botany of nutmeg.
- 30 After cultivation practices in mango.
- 31 Harvesting and post harvest operations in cardamom.

(6 × 4 = 24 marks)

(D) Essay. Answer any *two* questions :

- 32 Cultivation aspects of pineapple.
- 33 Write elaborate note on propagation, production of quality plant materials, nursery management, planting and aftercare of coconut
- 34 Write elaborate note on role of plant growth regulators in mango and ripening techniques in mango.
- 35 Describe pests and diseases of major plantation crops and it's management.

(2 × 15 = 30 marks)

SECOND SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

Agriculture

GEC 2HR 06—HUMAN RESOURCE MANAGEMENT

Time : Three Hours

Maximum : 80 Marks

Part I

*Answer all questions.**Each question carries 1 mark.*

I. Choose the correct answer :

- 1 Controlling comes under the _____ function of management.
 - a) Operating.
 - b) Managerial.
 - c) Behavioral.
 - d) Technical.
- 2 The process of job analysis results in two documents such as job description and _____.
 - a) Job specification.
 - b) Job rotation.
 - c) Job comparison.
 - d) Job enrichment.
- 3 Which of the following is the most popular method of external recruitment ?
 - a) Labour contractors.
 - b) Newspaper advertisement.
 - c) Campus placement.
 - d) Employee referrals.
- 4 A written statement showing the duties and responsibilities of a job is called :
 - a) Job design.
 - b) Job specification.
 - c) Job description.
 - d) Job rotation.
- 5 The systematic evaluation of an employees work in the organization is called :
 - a) Job enrichment.
 - b) Performance appraisal.
 - c) Job evaluation.
 - d) Job analysis.

II. Fill in the blanks :

- 6 _____ is a state of dissatisfaction over some issues related to employment.
- 7 A wage which is set up above the minimum wage but below the living wage is called _____.

Turn over

- 8 _____ is the process of attracting employees working with some other organization to our organization.
- 9 _____ is the relation between actual age and mental age.
- 10 Learning by doing is also called _____.

(10 × 1 = 10 marks)

Part II (Short Answer)

*Answer any eight questions.
Each question carries 2 marks.*

- 11 Define personal management.
- 12 What is meant by manpower planning ?
- 13 What is meant by performance appraisal ?
- 14 Define the term discipline.
- 15 What is demotion ?
- 16 What do you mean by grievance ?
- 17 Explain Job evaluation.
- 18 What is induction training ?
- 19 What is Halo effect ?
- 20 What do you mean by perquisites ?

(8 × 2 = 16 marks)

Part III (Short Essay)

*Answer any six questions.
Each question carries 4 marks.*

- 21 A sound grievance procedure must contain some essential features. Explain.
- 22 Explain different methods of job analysis.
- 23 Briefly explain the importance of performance appraisal.
- 24 What are the factors influencing wage system ?
- 25 Explain the different kinds of punishment.
- 26 Enumerate the need for training.
- 27 Differentiate between personnel management and human resource management.
- 28 Explain the steps involved in manpower planning.

(6 × 4 = 24 marks)

Part IV (Long Essay)

Answer any two questions.

Each question carries 15 marks.

- 29 Define grievance. Explain the causes of grievance.
- 30 What is recruitment ? What are the sources of recruitment ?
- 31 Define HRM. Explain the scope and objectives of HRM.

(2 × 15 = 30 marks)

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SECOND SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

Accounting and Taxation

SDC 2AT 06—COST ACCOUNTING

Time : Three Hours

Maximum : 80 Marks

Part A

Answer all questions.

1. The method of costing suitable to a transport company is _____ costing.
 - a) Operating.
 - b) Process.
 - c) Job.
 - d) None of these.
2. _____ is a cost which tends to vary directly with volume of output.
 - a) Variable cost.
 - b) Administrative cost.
 - c) Total cost.
 - d) Semi fixed cost.
3. _____ refers to any expenses or sacrifices of revenue without receiving any benefits.
 - a) Expenses.
 - b) Cost.
 - c) Loss.
 - d) Revenue.
4. Total of all direct cost is known as _____.
 - a) Cost of production.
 - b) Prime cost.
 - c) Factory cost.
 - d) Direct expenses.
5. Cost unit is used for _____.
 - a) Cost audit.
 - b) Cost control.
 - c) Cost ascertainment.
 - d) Cost reduction.
6. _____ refers to any kind of material loss which has no recoverable value
 - a) Waste.
 - b) Scrap.
 - c) Spoilage.
 - d) Defectives.
7. Inventory turnover ratio is also known as :
 - a) EOQ.
 - b) Stock velocity.
 - c) current ratio.
 - d) Quick ratio.
8. Time spent by the worker on each job during a week is recorded on _____.
 - a) Time card.
 - b) Daily muster roil.
 - c) Job card.
 - d) None of these.

Turn over

9. Which of the following is semi variable cost ?
- | | |
|-----------------------|-----------------------|
| a) Telephone charges. | b) Cost of materials. |
| c) Factory rent. | d) Carriage. |
10. Factory over head is also termed as _____ Overhead.
- | | |
|--------------------|-------------------|
| a) Work. | b) Selling. |
| c) Administrative. | d) None of these. |

(10 × 1 = 10 marks)

Part B

Answer any eight questions, not exceeding a paragraph of 50 words.

11. What is batch costing ?
12. What is conversion cost ?
13. What is cost unit ?
14. What is EOQ ?
15. Define machine hour rate.
16. What do you mean by secondary distribution ?
17. What is retention money ?
18. What is cost plus contract ?
19. What is process account ?
20. What is abnormal loss ?
21. What is stores ledger ?
22. What is danger level ?

Part C

Answer any six questions.

23. What are the limitations of financial accounting ?

24. A manufacture buys certain equipment from outside suppliers at Rs. 30 per unit. Total annual needs are 800 units. The following further data are available :

Annual return on investment 10%

Rent, insurance, taxes per unit per year Rs. 1

Cost of placing an order Rs. 100

Determine the EOQ.

25. Following are the receipts and issues of materials in a factory during march 2018 :

March 1 opening balance 500 units Rs.30

8 Issued 250 units

12 Received from vendor 200 units at Rs.28

14 Refund of surplus from a work order 15 units at Rs.25

16 Issued 180 units

20 Received from vendor 240 units at Rs. 26

24 Issued 300 units

25 Received from vendor 320 units at Rs. 25

26 Issued 110 units

27 Refund of surplus from a work order 12 units (issued on 16th march)

29 Received from vendor 200 units at Rs.25.

Issues are to be priced on the principle of last-in-first-out. The stock verifier noted a shortage of 10 units on 15th and another shortage of 8 units on 27th. Prepare store ledger.

26. Calculate machine hour rate from the following :

Cost of machine 8000

Cost of installation 2000

Scrap value after 10 years 2000

Rate and rent for quarter for the shop 300

General lighting 20. P.m.

Turn over

Shop supervisors salary 600 per quarter

Insurance premium for a machine 60 p.a

Estimated repairs 100 p.a

Power 2 unit per hour at Rs. 5 per 100 units

Estimated working hours p.a 2000

The machine occupied $\frac{1}{4}$ th of the total area of the shop. The supervisor is expected to devote $\frac{1}{6}$ th of his time for supervising the machine. General expenses are to be apportioned on the basis of floor area.

27. Calculate the total earnings and the earnings per hour of three worker A, B and C under the Halsey and rowan scheme :

Standard time 20 hours

Time rate Rs.20 per hour

Time taken : A 16 hours ; B 10 hours and C 8 hours.

28. The following particulars relate to the manufacture of calculators for the month of September 2008.

	Rs.
Stock of materials on 1st September	7,500
Stock of materials on 30th September	5,000
Purchases of materials	82,500
Factory wages	70,000
Indirect expenses	15,000
Finished stock on 1st September	Nil
Finished stock on 30th September	20,000
Sales	1,68,000

The number of calculators manufacture during the month was 2,000 and the price is to be quoted for 400 calculators in order to realize the same percentage of profit as was realized during September 2008. Prepare the statement of quotation.

29. Following information has been taken from the costing records of a company in respect of job no : 325

Direct materials : 7500

Wages :

Dept. A 100 hours at Rs. 6 per hour

Dept. B 50 hours at Rs. 4 per hour

Dept. C 40 hours at Rs.3 per hour

Variable overhead for these three departments were estimated as follows :

Dept. A Rs. 6000 for 3000 hours

Dept. B Rs. 3000 for 2000 hours

Dept. C Rs. 1500 for 1500 hours

Fixed overhead is estimated as Rs. 30,000 for 20,000 normal working hours.

You are required to calculate the cost of the job and price to be quoted to give a profit of 25% on selling price.

30. Following information relates to two processes A and B. Prepare process accounts and other related accounts.

	Process A	Process B
Materials	40,000	5,000
Labour	15,000	15,000
Overheads	8,400	11,710
Input(units)	20,000	17,500
Normal loss	10%	4%
Sale of waste per unit	2	3

There was no opening or closing stock or work in progress. Final output from process B was 17,000 units.

31. From the following information calculate total kilometers and total passenger kilometers :

No. of buses 6

Days operated in the month 25

Trip made by each bus 4

Distance of route 25 kms (one side)

Capacity of bus 50 passengers

Normal passengers travelling 80% of capacity.

Turn over

Part D

Answer any **two** questions, not exceeding **four** pages.

32. From the following information prepare cash budget for the three month April-June 2010 :

Month	Sales	Purchases	Wages	Expenses
February	60,000	45,000	7,000	5,000
March	90,000	55,000	8,000	7,000
April	80,000	60,000	9,000	6,000
May	1,00,000	50,000	12,000	9,000
June	1,10,000	65,000	10,000	10,000

Other information :

- Cash in hand on 1st April 2010 is Rs.20000
 - Period of credit allowed by supplier - two months
 - 25% of the sales is for cash and the period of credit allowed to customers for credit sale- one month.
 - Delay in payment of wages and expenses - one month
 - Income tax Rs. 25000 is to be paid in June 2010
33. What is cost sheet ? Explain various items of cost included in the cost sheet.
34. Calculate the earnings of workers X,Y and Z under straight piece rate system and Merrick's differential piece rate system:
- Normal rate per hour Rs. 18
- Standard time per unit : 1 minute
- Output per day of 8 hours :
- X : 380 units
- Y : 450 units
- Z : 50 units
35. The following is the record of receipts and issues of certain material in a factory during a week of May2018. Opening balance 100 tonnes at Rs.10 per tonne. Use LIFO and FIFO methods :
- 1 Issued 60 tons.
 - 2 Received 120 tons at Rs. 10.10 per ton.
 - 3 Issued 50 tons (stock verification reveals a loss of 2 tons).
 - 4 Received back from order 20 ton (originally issued at Rs.9.90 per ton).
 - 5 Issued 80 tons.
 - 6 Received 44 tons at Rs. 10.20 per ton.
 - 7 Issued 66 tons.

SECOND SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021Accounting and Taxation
SDC2AT05—DIRECT TAXATION—I

Time : Three Hours

Maximum : 80 Marks

Part A

Answer all questions. . . .
Each question carries 1 mark.

1. Who is assessee in case of a HUF ?
 - (a) Father.
 - (b) Spouse.
 - (c) Karta.
 - (d) Deemed Karta.
2. Section 10 Of Income Tax Act deals with _____.
 - (a) Deductions.
 - (b) Exempted incomes.
 - (c) Income from salary.
 - (d) Casual incomes.
3. Who is Tax payer ?
 - (a) Assessee.
 - (b) Businessman.
 - (c) Trust.
 - (d) Government employee.
4. The salary, remuneration or compensation received by the partners is taxable under the head _____.
 - (a) Income from Other Sources.
 - (b) Income from Business.
 - (c) Salary.
 - (d) None of the above.
5. Under Section 15 of Income Tax Act, the salary due in previous years and even if it is not received is _____.
 - (a) Taxable.
 - (b) Not taxable.
 - (c) Partially taxable.
 - (d) None of the above.

Turn over

6. Which of the following is not taxable under the head Salary ?
- (a) Remuneration paid to the lecturer of a college for setting a question paper.
 - (b) Salary received by a member of parliament.
 - (c) Commission received by an employee director of a company.
 - (d) Both (a) and (b).
7. The Depreciation allowance is charged of written down value on intangible assets at the rate of _____.
- (a) 25 %.
 - (b) 15 %.
 - (c) 20 %.
 - (d) 30 %.
8. Deduction for bad debt is allowed to assessee carrying on business in the year in which the debt is _____ as bad.
- (a) Accrual Basis.
 - (b) Written Basis.
 - (c) All of the above.
 - (d) None of the above.
9. In the case of family planning expenditure _____ of the expenditure is allowed as deduction for five years.
- (a) $\frac{1}{5}$.
 - (b) $\frac{1}{4}$.
 - (c) $\frac{1}{3}$.
 - (d) $\frac{1}{10}$.
10. For claiming exemption under section 54 B the asset transferred should be :
- (a) Urban agricultural land.
 - (b) Any agricultural land.
 - (c) Rural agricultural land.
 - (d) None of these.

(10 × 1 = 10 marks)

Part B

*Answer any eight questions.
Each question carries 2 marks.*

- 11. What is direct tax ?
- 12. What is agricultural income ?
- 13. Give the full form of CBDT.
- 14. What is public provident fund ?

15. Which are the deductions under section 16 ?
16. What is DA
17. What is unabsorbed depreciation ?
18. Define the term business.
19. What is a long term capital gain ?
20. What is cost of improvement ?
21. Mention the various kinds of securities.
22. Write any *two* expenses that are deductible under income from other sources.

(8 × 2 = 16 marks)

Part C

*Answer any six questions
Each question carries 4 marks.*

23. Explain different types of provident fund.
24. Mr. Adarsh born and brought up in Mumbai, left India to Germany in May 2015. He came back to India to settle in India on 1st February 2019. Determine the residential status for the annual year 2019 - 2020.
25. Mr. Raj of Kerala is employed in Mumbai. He resides in a house paying a rent of Rs. 3,000 per month. His salary consist of :

Basic pay Rs. 15,000 p.m.

Dearness allowance Rs. 5,000 p.m. (given under the terms of employment)

Commission @ 2 % on turn over (turnover achieved by him = 5,00,000)

HRA @ 4000 PM

Compute taxable HRA.

26. Compute capital gain :

Net consideration received on 10-10-2014 14,00,000

Cost of acquisition on 10-01-2007 1,00,000

CII in 2006-07 = 519, 2014-15 = 1024

Turn over

27. The net profits of business of Mr. Vijayan as disclosed by its profit and loss account were Rs. 3,25,000 after charging the following :

	Rs.
Municipal taxes on house property let out	3,000
Bad debts written off	15,000
Provision for doubtful debts	16,000
Provision for taxation	15,000
Depreciation	25,000
Depreciation allowable as per rules is	20,000

Ascertain taxable business profits ?

28. Mr. Sunder sold an asset on 15-8-2017 (C.I.I 272) for Rs. 94,500. The cost price of the asset purchased on 11-02-1976 was Rs. 20,000. the fair market value of the same on 01-04-2001 (C.I.I 100) was Rs. 20,000. Calculate his taxable capital gain.
29. Mr. Vivek is employed in Mumbai with a basic salary of Rs. 8,000 per month (14 % enters into retirement benefit). Bonus Rs. 18,000 per annum. Commission Rs. 4,500 per annum. Entertainment allowance Rs. 500 per month. His contribution to RPF Rs. 1,000 per Month. Interest credited to RPF 10 % Rs. 2,000, Employers contribution to RPF Rs. 1,000 per month.
- Compute his salary income.
30. C purchases a house for Rs. 2,00,000 in 2001-2002 and paid Rs. 18,000 as registration fees. He sold this house on 31-05-2018 for Rs. 9,00,000. The market value of this house on 15-09-2005 was 8,00,000. Compute the capital gain for the assessment year 2019-20. (CII- 2001-02 - 100, 2019-20 - 280)
31. Compute income from other sources.
- 5 % Government securities—70,000
 - 7.5 % Agra Municipal Bond—50,000
 - 9 % of debentures of a company—30,000
 - 7 % capital investment bond—20,000.

(6 × 4 = 24 marks)

Part D

Answer any two questions.
Each question carries 15 marks.

32. What are the incomes shall be deemed to accrue or arise in India ?
33. Mr. Jacob is now working in a private company at Calicut. From the following particulars, calculate his income from salary for the assessment year 2019-20 :
- Salary 10,000 p.m.
 - DA @ 10 % of salary.
 - A car with an engine capacity of 1.5 liters (small car) is provided by employer. All expenses relating to the car including driver's salary is met by the employer. The car is used for both personal and official purpose.
 - He is also getting an amount of 2,000 p.m. as House Rent Allowance and he pays rent of 1500 p.m.
 - He paid 1200 as professional tax for the last financial year.
 - City compensatory allowances @ 700 p.m.
 - He is contributing 1,500 p.m. towards recognized provident fund. The employer is also contributing the same amount.
34. Compute income from business as well as his total income for the assessment year 2019-2020 :

	Rs.		Rs.
Salary and wages	24,000	G/P	96,400
Rent and rates and tax	6,400	Dividend	4,800
Trade expenses	2,950	Rent from property	10,800
Advertisement	1,900		
Fire insurance premium (house) ...	600		
Discount	2,500		
Postage	550		
Donations	2,000		
Income tax	6,600		
Loss of stock	4,000		
Repairs (house property)	1,000		
Audit fees	600		
Household expenses	7,000		
Life insurance premium	4,000		
Interest on capital	400		
Net profit	47,550		

Turn over

35. B sells a residential building at Calicut for Rs. 15,00,000 on July 1, 2018. The building acquired for Rs. 1,50,000 on June 1st, 2006. She pays brokerage @ 2 % at the time of sale of the building. She invests 7,00,000 in purchasing a residential building on December 2018 and deposits Rs. 2,00,000 under section 54 EC in bonds of NHAI (redeemable after 3 years) on March 2019 :

Compute capital gain.

36. Compute income from other sources :

	Rs.
10 % Government securities	35,000
12 % Kerala municipal bonds	20,000
9 % Cochin port Trust Bonds	40,000
7 year post office National Savings Certificates	20,000
9 % securities of foreign government	36,000
7 % Government bonds	10,000
7 % national plan certificates	10,000

He paid Rs. 120 as commission for collecting the interest taxable and Rs. 2,400 as interest on loan, which had taken for the purpose of purchasing Cochin Port Trust Bond.

(2 × 15 = 30 marks)

SECOND SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

Common Paper

GEC 2BN 06—BASIC NUMERICAL SKILLS

(2017 Admissions)

Time : Three Hours

Maximum : 80 Marks

Part A*Answer all questions.**Each question carries 1 mark.*

I. Choose the correct answer :

1 Statistics are :

- | | |
|------------------------------|---------------------------|
| a) Aggregate of facts. | b) Numerically expressed. |
| c) Systematically collected. | d) All these. |

2 A frequency distribution can be :

- | | |
|--------------|-----------------------------------|
| a) Discrete. | b) Continuous. |
| c) Neither. | d) Either discrete or continuous. |

3 Index Numbers are :

- a) Special type of averages.
- b) Measure of the economic barometers.
- c) Measure of relative changes.
- d) All of these.

4 _____ variations are periodic movements.

- | | |
|--------------|-------------------|
| a) Seasonal. | b) Secular trend. |
| c) Cyclic. | d) Irregular. |

Turn over

5. If $A = \begin{bmatrix} 3 & 2 \\ 5 & 4 \end{bmatrix}$, find $2A$:

a) $\begin{bmatrix} 6 & 3 \\ 9 & 24 \end{bmatrix}$

b) $\begin{bmatrix} 6 & 4 \\ 10 & 8 \end{bmatrix}$

c) $\begin{bmatrix} 15 & 10 \\ 10 & 20 \end{bmatrix}$

d) $\begin{bmatrix} 65 & 4 \\ 10 & 18 \end{bmatrix}$

II. Fill in the blanks :

6 Let $A = \{1, 3, 5, 7\}$, $B = \{3, 4, 5, 6\}$, $A \cap B =$ _____.

7 Simple interest for Rs. 15,000 at the rate of 10 % per annum for 3 years is _____.

8 If $2x + 6 = 14$, value of $x =$ _____.

9 Mode of Values 3, 7, 6, 7, 3, 4, 8, 2, 7, 4, 5 is _____.

10 Mean of five items is 50. Three of them are 100, 50, 50 and 20. The other is _____.

(10 × 1 = 10 marks)

Part B

Answer any **eight** questions from the following.

Each question carries 2 marks.

11 What is meant by Frequency Distribution ?

12 What is meant by Time-series ?

13 What is Venn diagram ?

14 If $A = \{1, 2, 3, 4, 5\}$ and $B = \{3, 4, 5, 6\}$ find $A - B$.

15 If $A = \begin{bmatrix} 4 & 7 & 10 \\ 11 & 5 & 8 \\ 33 & 2 & 30 \end{bmatrix}$, find the minor of element 4.

16 If $A = \begin{bmatrix} 2 & 1 & 3 \\ 1 & 5 & 1 \\ 3 & 2 & 6 \end{bmatrix}$, find the co-factor of element 6.

17 Find the 5th term of series 2, 4, 6 _____.

18 Solve $6x + 20x - 16x = 30$.

19 Calculate median from the following values 35, 15, 25, 18, 17, 26, 28, 24, 22,

20 Calculate Arithmetic Mean from the following values 1, 4, 6, 9, 13, 16, 18, 17

(8 × 2 = 16 marks)

Part C

Answer any six questions from the following.

Each question carries 4 marks.

21 What are the limitations of statistics ?

22 Describe the importance of diagrams and graphs.

23 In a school there are 15 teachers, who teach Physics or Chemistry. Of these 8, teach Physics and 3 teach both Physics and Chemistry. How many teach Chemistry ?

24 Compute 3 yearly moving average from the following data :

Year	2015	2016	2017	2018	2019	2020
Industrial accidents	87	68	61	54	45	37

25 Calculate Arithmetic mean from the following data :

Values	10	20	30	40	50	60	70	80
Frequency	7	9	11	14	15	13	12	5

26 Calculate Mean Deviation from mean for the following values :

14, 15, 23, 20, 10, 30, 19, 18, 16, 25, 12

27 Solve the equation

$$x^2 + 5x - 14 = 0.$$

Turn over

28 Solve the following equations by using Cramer's rule

$$2x + 5y = 13$$

$$3x + 3y = 15.$$

(6 × 4 = 24 marks)

Part D

Answer any **two** questions from the following.

Each question carries 15 marks.

29. What is primary data ? Explain the methods of collecting primary data.

30 Following are the data related with the prices and quantities consumed for the years 2012 and 2017 :

Commodity	2012		2017	
	Price	Quantity	Price	Quantity
A	25	16	52	19
B	33	12	45	20
C	34	21	40	25
D	23	14	28	17

Construct price index numbers by :

- (1) Laspeyre's method.
- (2) Paasche's method.
- (3) Bowly's-Dorbish method.
- (4) Fisher's method.

31 Calculate Standard Deviation and Co-efficient of variation from the following data :

Marks	0-10	10-20	20-30	30-40	40-50
Frequency	2	4	5	7	9

(2 × 15 = 30 marks)

SECOND SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

Common Paper

GEC 2BN 06—BASIC NUMERICAL SKILLS

(2014 Admissions)

Time : Three Hours

Maximum : 80 Marks

Part I

*Answer all questions.
Each question carries 1 mark.*

Choose correct answer from the brackets

1. If a set has only one element then that set is _____.

a) Null set.	b) Infinite set.
c) Singleton set.	d) Subset.

2. Which term of the series 2, 4, 8, 16....is 256 ?

a) 6.	b) 8.
c) 10.	d) 12.

3. A matrix whose determinant is zero is _____.

a) Zero matrix.	b) Symmetric matrix.
c) Singular matrix.	d) Orthogonal matrix.

4. A measure of central tendency is _____.

a) Median.	b) Range.
c) Mean deviation.	d) Skewness.

5. A quadratic equation is _____.

a) $x^3 - 4x + 9 = 0$.	b) $X^2 + 4 = 2$.
c) $2x + 1 = 0$.	d) $ax + by + c = 0$.

Fill up the blanks with correct answers :

6. A Harmonic progression is _____.
7. The rank of a matrix is _____.

Turn over

8. If $n(A) = 50$, $n(B) = 20$ and $n(A \cup B) = 56$ then $n(A \cap B) = \text{—————}$.
9. The power set of a set is —————.
10. An example for discrete random variable is —————.

(10 × 1 = 10 marks)

Part II (Short Answer Questions)

*Answer any eight questions.
Each question carries 2 marks.*

11. Find $A \times B$ and $B \times A$ if $A = \{2, 4, \dots\}$ & $B = \{0, 1, 5\}$.
12. Define a primary data.
13. Find the 20th term of the series 1, 1/2, 1/4.....
14. Find the simple interest for Rs. 50,000 for 3 years at 8% p. a.
15. Define quartile deviation.
16. Calculate the arithmetic mean of sales from the following data :
- | | | | | | |
|-------|----|----|----|----|----|
| Month | 1 | 2 | 3 | 4 | 5 |
| Sales | 19 | 26 | 34 | 35 | 36 |
17. If $A = \begin{pmatrix} 2 & -6 \\ 1 & 5 \end{pmatrix}$ and $B = \begin{pmatrix} 1 & -1 \\ 0 & 4 \end{pmatrix}$ prove that $A B = B A$
18. The mean of two samples of sizes 200 and 300 were found to be 25, 10 ; their standard deviations were 3 and 4 respectively. Find the variance of combined sample of size 500.
19. What is secular trend in time series ?
20. Find first term and common difference if an A P has 11th term 38 and 16th term 73.

(8 × 2 = 16 marks)

Part III (Short Essays)

*Answer any six questions.
Each question carries 4 marks.*

21. Prove Demorgans law using the following sets.

$$U = \{1, 2, 3, 4, 5, 6, 7, 8, 9\}$$

$$A = \text{positive even integers less than 10}$$

$$B = \text{set of prime numbers less than 10.}$$

22. Find A^{-1} if $A = \begin{pmatrix} 2 & 1 & 2 \\ 2 & 2 & 1 \\ 1 & 2 & 2 \end{pmatrix}$

23. Insert 7 geometric means between 1 and 256.
24. Explain about classification and tabulation.
25. Find the number of years in which a sum of money will double itself at 5% pa C.I.
26. Evaluate $4 + 44 + 444 + \dots$
27. Solve $2(x - 4)(x + 6) - 6 = 0$.
28. Explain about various measures of dispersion.

(6 × 4 = 24 marks)

Part IV (Essay Questions)

*Answer any two questions.
Each question carries 15 marks.*

29. Explain different set operations with the help of venn diagrams.
30. What is an index number ? What are its characteristics ?
31. Find the standard deviation for the following frequency distribution.

X_i	15	25	35	45	55	65	75
f_i	21	28	40	30	50	15	16

(2 × 15 = 30 marks)

SECOND SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

Arabic

GEC 2AR 05—READING ARABIC LITERATURE

(2019 Admissions)

Time : Three Hours

Maximum : 80 Marks

Section A

Answer the following questions.

Each question carries TWO marks. Ceiling 25 Marks

املأ الفراغ بالكلمة المناسبة:

١. (ا) هي في مدرسة (يدرس / دارسة / درس)
 (ب) اشترت ساعة (جديدة / جميلا / صغيرا)
 (ت) تقع الكعبة مكة (على / عن / في)
 (ث) إلى أين يا فاطمة ؟ (تذهب / تذهبين / يذهب)
٢. (ا) بكم هذا ؟ (الهاتف / السيارة / الدراجة)
 (ب) من الرجل يقف أمام البيت ؟ (التي / الذين / الذي)
 (ت) الشركة جدا (قريب / بعيد / بعيدة)
 (ث) أنا أحب اللغة (العرب / العربية / العربي)
٣. (ا) ذهب إلى صديقه (علي / عائشة / أنا)
 (ب) الحاسوب الطاولة (عن / من / على)
 (ت) المعلمون الكتب (يقرأون / يقرآن / يقرأ)
 (ث) أنا مصاب الحمى (ب / إلى / من)
٤. اكتب الكلمات المضادة: ١. غني ٢. دخل
٥. اكتب المعنى في الإنجليزية: ١. مرض السكرى ٢. فرشاة أسنان

Turn over

- ٦ . اكتب المعنى في العربية: . ١ Diagnosis . ٢ Soap . ٢
 ٧ . اكتب الجمع: . ١ ابن . ٢ عاقل . ٢
 ٨ . اكتب المفرد: . ١ ضعفاء . ٢ مصائب . ٢
 ٩ . حوّل إلى المذكر

١ . هي مصريّة

٢ . اجتهدت الدارسة

١٠ . حوّل إلى المؤنث

١ . هو عالم

٢ . هم مؤمنون

أجب بجملة أو جملتين:

١١ . "طالما وثقت بأنك ستكون موسيقيا كبيرا" - من قال ؟ ولمن ؟

١٢ . لم أبت المرأة أن تبيع الأرض للتاجر ؟

١٣ . لم قال جحا: "القمر أكثر فائدة من الشمس" ؟

١٤ . من كتب قصة "الن نسي" ؟

١٥ . ما عنوان قصيدة محمود درويش التي مطلعها "سجل أنا عربي" ؟

Section B

Answer the following questions.

Each question carries FIVE marks. (Ceiling 35 Marks)

١٦ . صل بين العبارات الآتية:

The train will leave in half of an hour	انتظر هنا
I shall be happy to meet your friend	هو يدرس الهندسة

Have a good time	إنني أقدر شعورك
Take deep breath	تأمل قبل أن تتكلم
Wait here	متّع نفسك
Please keep quite	ينطلق القطار خلال نصف ساعة
I appreciate your feelings	اسكت من فضلك
Enjoy yourself	أتمنى لك وقتا سعيدا
He studies engineering	تنفّس عميقا
Think before you speak	سأكون سعيدا بلقاء صديقك

١٧. أكمل الناقص بالكلمات المناسبة:

(صباحا، مساء، كلية، الكتب، اللغة)

أنا محمد بشير.

أدرس في حكومية.

أدرس العربية.

هو ابني قراءة

أصل إلى الكلية في التاسعة

وأرجع إلى بيتي في الرابعة

أنا مسرور جدا.

١٨. هات أسئلة للأجوبة الآتية:

١. أنا هنديّ. ؟

٢. طلب الطبيب مني ممارسة الرياضة. ؟

٣. ذهبت إلى المدينة لشراء بعض الكتب. ؟

٤. أخرج من بيتي في الساعة صباحا. ؟

٥. قابلت صديقي في السوق. ؟

Turn over

١٩. أكمل الحوار الآتي:

: إلى أين أنت ذاهب ؟

..... :

: هل تسافر الآن ؟

..... :

: إلى أين تسافر ؟

..... :

: هل تسافر مع الأسرة ؟

..... :

: أتمنى لك رحلة سعيدة

..... :

٢٠. كوّن سؤالاً بالآتية:

من : ؟

ما : ؟

متى : ؟

كيف : ؟

أين : ؟

٢١. رتب الكلمات الآتية:

١. جحا - في مزرعته - خرج - ليعمل - من بيته

٢. لا درهم له - فينا - ولا متاع - من - المفلس

٣. سعيد جدا - لكم - صديقي - بتقديم - أنا

٤. هي - في - تدرس - كاليكوت - جامعة

٥. إنَّ - سيكون - هذا - ابنك - زعيما

٢٢. ترجم إلى العربية:

Are you an Indian?

Yes.

Which state do you come from?

I'm from Kerala.

Are you a student?

No, I am a teacher, and you?

I'm a student.

Are you a Pakistani?

No, I'm also an Indian.

٢٣. ترجم إلى الإنجليزية:

: هل زرت الهند؟

: نعم، قد زرتها. حقا إنها لعجيبية

: هل شاهدت تاج محل، ومنازة قطب، والقلعة الحمراء؟

: طبعا

: هل رحلت إلى كيرالا؟

: لا

: إذن أنت لم تزر الهند!

Turn over

Section C

Each question carries TEN marks. (2x10=20 Marks)

اكتب مقالة لا تقل عن ١٠ جمل في العربية عن اثنين من التالية:

٢٤. قصيدة 'القدس'

٢٥. كفت الأذى

٢٦. قصة 'لن ننسى'

٢٧. قصيدة 'بطاقة هوية'

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SECOND SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

Arabic

GEC 2AR 05—READING ARABIC PROSE AND POETRY

(2017 Admissions)

Time : Three Hours

Maximum : 80 Marks

PART- A

12× ½ = 6

- 1 أكمل الفراغ بلفظ مناسب مما بين القوسين .
- 1- إشتريت من المكتبة. (سيارة- قلم- دراجة)
- 2- تحدث المدرس الصلاة (من - عن - إلى)
- 3- المدرسات إلى دلهي. (سافر- سافرن- سافروا)
- 4- الأب الشاي (تناول- تناولت- تناولوا)
- 5- لقد إلى أخوك مرة من لندن. (كتب- كتبت- كتبه)
- 6- يسكن المدير شارع الجامعة (في - على - ب)
- 7- لماذا لا تنقل إلى مدينة (جميل- جميلة - الجميلة)
- 8- إن غرفتنا (ممتاز- ممتازة- ممتازا)
- 9- هذه لك منى (القلم- الوردة- الحديقة)
- 10- أنه خجل نفسه (من - في - إلى)
- 11- تعلمت أول أمرى فى حقير (مدرسة- كلية - كتاب)
- 12- هل هناك فى الحمام؟. (مطعم- دراجة- مسخن)

PART- B

10× 2 = 20

- 11 - أجب عن عشرة من الآتية فى جملة أو جملتين.
- 13- ما هما اللذان جربهما الكاتب " أحمد أمين " فى حياته من الصفات الهامة؟.

Turn over

- 14- ما هي الرباعيات؟ من ألفها؟.
- 15- " إن ابنك هذا سيكون زعيما داهية وسيتبعه الناس طائعين". من قال؟ ولمن قال؟.
- 16- كيف يرى النكي تغيير الطباع؟.
- 17- كيف يكسب العلم والحلم في رأي محمد بن عبد الرحمن العرفي؟.
- 18- ماذا قال التاجر الثالث حينما أرى التاجر المشهور في عمامته البيضاء؟.
- 19- ماذا حدث للطفل حينما سأله الأعداء " لماذا قتلت الفتاة"؟.
- 20- " هذا عيب شنيع ألفت إليه نظرك ونظر زملائك" ما هو العيب؟. من قال هذا؟
- 21- لماذا أراد منير ترك الوظيفة في مومباي؟.
- 22- ما هي الأمور التي يرجو الشاعر نزار قباني حدوثها غدا في القدس؟.
- 23- كيف تقدم الأنسة المهذبة في روضة الأطفال تعليم القراءة والكتابة؟.
- 24- أكتب إثنين من مؤلفات نجيبه محمد حسن الرفاعي.

PART- C

6× 5 = 30

111- أجب عن ستة من الآتية.

* صل بين العبارات الآتية.

25- بكل سرور! What a great victory

ليس بامر خاص With pleasure !

ما أعظم الفوز! Excellent Engineer

أسكت من فضلك! Please keep silence

مهندس ماهر Nothing special

26- لم يسمع قبل هذا المجلس عن عمر الخيام - لا تبك على اللبن المسكوب.

إننى أهنتك يا سيدتى لأن ابنك ولد مسيحيا - نزار بن توفيق القباني

- كان فى الأندلس تاجر مشهور - نجبية محمد الرفاعي
 دنياهم يعوى فى سماءها صراخ الأمهات - كاهن فى قصة "اللغة الأخرى".
 ترجع الحمائم المهاجرة - رسالة إلى الولد.

27- أكمل الحوار الآتى.

فاطمة: إسمى

موظف: أهلا و أي خدمة؟

فاطمة: فى الأسبوع غرفة هنا.

موظف: نعم، عندنا غرفة محجوزة لك. الغرفة بالطابق

فاطمة: طبعاً؟

موظف: نعم، ولكن اليوم المصعد معطل. أنا آسف.

فاطمة:؟

موظف: نعم، ولكن اليوم التلفزيون معطل. أنا

فاطمة: وأنا أيضا آسفة جدا. أذهب إلى فندق آخر.

* إشرح الآتية مع ذكر السياق.

28- " ويرجع الأطفال يلعبون "

ويلتقى الآباء والبنون

على رباك الزاهرة....

يا بلدى....

يا بلدى السلام والزيتون".

29- " أهم ما جربت فى حياتى أنى رأيت قول الحق والتزامه، وتحزى العدل وعمله، يكسب الإنسان من المزايا ما لا يقدر".

Turn over

* أكتب فقرة عن الآتية.

30- أحمد أمين: صاحب التيار الأدبي والفكري المستقل.

31- جبران خليل جبران: فيلسوف وشاعر مشهور.

32- فدوى طوفان وأعمالها الأدبية.

PART- D

2× 12 = 24

1V - أكتب عن اثنين من الآتية.

(Answer any two of the following. Essays can be written in Arabic or English)

33- طبيعة الإنسان كما صور محمد بن عبد الرحمن العرفى فى مقالة " لا تبك على اللبن المسكوب".

34- آمال الشاعر نزار قباني المصورة فى شعر " القدس".

35- ترجم إلى العربية.

Do you speak English?

Only a little, and not very well.

Do you know many words?

No, I don't. Only the important words.

Where did you go?.

We went to a beautiful beach.

Did you swim in the ocean?

Yes, but we swam close to the shore.

36- ترجم إلى الإنجليزية.

عبد الله: صباح الخير يا أنسة!

زينب: صباح النور.

عبد الله: هل أنت من الهند؟
زينب: لا.

عبد الله: من باكستان؟
زينب: لا.

عبد الله: من أي بلد أنت؟
زينب: بلد من البلاد.

عبد الله: هل تذهب إلى صالة الشاي؟
زينب: شربت الشاي والقهوة.

عبد الله: نذهب إلى المسرح..... أو السينما؟
زينب: لا، أنا آسفة.

CHMK LIBRARY UNIVERSITY OF CALICUT

SECOND SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

Arabic

GEC 2AR 05—LITERATURE IN ARABIC

(2014 Admissions)

Time : Three Hours

Maximum : 80 Marks

* أجب عن الأسئلة الآتية في كلمة.

(12 × ½ = 6 marks)

I. أكمل بالمناسب مما بين القوسين:

1- البداية الفعلية للثورة الصناعية. (الزراعة، صناعة الماكينية، تكنولوجيا)

2- من الجهاز اللسان والأسنان والحلق والبلعوم. (العصبي، التنفسي، الهضمي)

3- وانصرني على من علي. (ظلم، بغى، ضر)

4- الحفظ بال..... طريقة مبنية على أساس زيادة محتوى السكر في الثمرة. (التجميد، التسكر، التجفيف)

* أكمل حسب الإرشادات مما بين القوسين:

5- إن الحاسوب عبارة جهاز إلكتروني. (ضع حرفا مناسباً في الفراغ)

6- مرض الطالب مرضاً شديداً. (حول الفاعل إلى المؤنث)

7- ذلك كتاب (ضع نعنا مناسباً)

8- قاسم يقبل على الصيدلة. (حول الجملة إلى الفعلية)

* اختر جواباً صحيحاً مما بين القوسين:

9- أقدم الطرق المعروفة لحفظ الأثمار (التجميد، التجفيف، التسكر)

10- أعطنا قهوة. (فنجان، إبريق، علبة)

11 - معنى الصيف (winter, spring, summer)

12- كيف يقابل البلاء؟ (بالذکر، بالصبر، بالإسغفار)

Turn over

(10 × 2 = 20 marks)

II. أجب عن عشرة من الأسئلة الآتية في جملة أو جملتين :

- 13- ما معنى " الخط مشغول"؟
- 14- ما معنى "أعطني علبة شجائر"؟.
- 15- ماذا تحتاج القلوب والأجسام؟.
- 16- أين ينعقد المعرض التجاري الوطني؟.
- 17- ما مثل الذي يعلم الناس الخير ولا يعمل به؟.
- 18- لم يأتي أصحاب الغزال إليه؟.
- 19- هل كان الصبي يعرف السياحة؟.
- 20- ماذا قال المغفل الأول؟.
- 21- ما هي المكونة الملموسة في كمبيوتر؟.
- 22- لماذا نزيد السكر عند تجفيف الأثمار؟.
- 23- في أي يوم خرج جمال مع أسرته إلى المعرض لمشاهدته؟.
- 24- كم تذكرة اشترى جمال لدخول ميدان المعرض؟.

(6 × 5 = 30 marks)

III. أكتب مذكرة عن ستة من الآتية :

- 25- صناعة الماكينة العصرية.
- 26- تحميل الملفات والمشاركة في المناقشات بواسطة الإنترنت.
- 27- دعاء النبي (ص) الذي ورد عن ابن عباس (ر)..
- 28- كيفية الحفظ بالتكسير.
- 29- الحاسوب ووظائفه الأساسية الأربع.
- 30- قصة صبي غير عاقل.

31- تأثير التدخين على الجهاز التنفسي.

32- حكاية حكماء الفرس.

(2 × 12 = 24 marks)

IV. أكتب مقالة عن اثنين من الآتية :

33- الإنترنت واستعمالاته المختلفة.

34- حكايات مختلفة.

35- أعد حواراً بين مريض وصديقه لا يقل عن 8 مكاملة.

36- خصائص العمال والنصائح الواردة في قصيدة " نصيحة إلى العمال".

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