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Reg. No.....

SECOND YEAR B.Sc. DEGREE (PARAMEDICAL COURSES) [SUPPLEMENTARY] EXAMINATION, NOVEMBER 2019

Medical Laboratory Technology

Paper VIII—HAEMATOLOGY—II AND CLINICAL PATHOLOGY

(2012 Admissions)

Time: Three Hours

Maximum: 100 Marks

Answer all questions.

Draw diagrams wherever necessary.

Essays:

1. Classify Acute Leukemia. Describe the blood and bone marrow findings in Acute Myeloid Leukemia.

(4 + 3 + 3 = 10 marks)

2. Describe the collection and examination of CSF. Mention the CSF findings in various diseases.

(3 + 4 + 3 = 10 marks)

 $[2 \times 10 = 20 \text{ marks}]$

Short Notes:

- 3. Urine sugar estimation.
- 4. Cytochemical stains in Acute Leukemia.
- 5. Sputum examination.
- 6. Urinary sediments.
- 7. Pregnancy test.
- 8. Laboratory diagnosis of iron deficiency anemia.
- 9. Haemophilia.
- 10. Semen analysis.
- 11. Leukemoid reaction.
- 12. Ham's test.

Answer briefly:

- 13. INR.
- Serum Electrophoresis of Myeloma proteins.
- 15. Perl stain
- 16. Heat and acetic acid test
- 17. Fecal Occult Blood examination
- 18. Differentiate between Transudate and Exudate
- 19. Sickling test.
- 20. Eosinophilia
- 21. Synovial fluid analysis.
- 22. Stool Ova and Parasite test

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SECOND YEAR B.Sc. DEGREE (PARAMEDICAL COURSES) [SUPPLEMENTARY] EXAMINATION, NOVEMBER 2019

Medical Laboratory Technology

Paper VII—PARASITOLOGY AND ENTOMOLOGY

(2012 Admissions)

Time: Three Hours Maximum: 100 Marks

Answer all questions.

Draw diagrams wherever necessary.

I. Essays:

- Describe the lifecycle and morphology of the parasite causing visceral leishmaniasis. Discuss in detail about its laboratory diagnosis.
 (10 marks)
- 2 Explain in detail the morphology, lifecycle and public health importance of Aedes mosquito.

(10 marks)

II. Short notes:

- 3 Lab diagnosis of falciparum malaria.
- 4 Mosquito control measures.
- 5 Clonorchis sinensis.
- 6 Lab diagnosis of Echinococcosis.
- 7 Cysticercus cellulosae.
- 8 Lab Diagnosis of Enterobiasis.
- 9 Compare the microfilariae of Wuchereria bancrofti and Brugia malayi.
- 10 Classify arthropods of public health importance.
- 11 Ascariasis-Lifecycle of causative agent and Lab diagnosis.
- 12 Pathogenic free living amoebae.

III. Answer briefly:

- Culture methods in Parasitology. 13
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Medical Laboratory Technology

Paper VI—GENERAL MICROBIOLOGY

(2012 Admissions)

Time: Three Hours Maximum: 100 Marks

Answer all questions.

Draw diagrams wherever necessary.

I. Essay:

- 1 Briefly describe anaerobic respiration in bacteria and write in detail about anaerobic culture methods. (10 marks)
- 2 What are extrachromosomal genetic elements? Write a note on plasmids and its significance.

(10 marks)

II. Short Notes on:

- 3 Enriched media.
- 4 Mutagens.
- 5 Bacterial growth curve.
- 6 Conjugation.
- 7 Mc Farland standard.
- 8 Incubator used in bacteriology.
- 9 Bacteriocin typing.
- 10 Streak culture method.
- 11 Cooked meat medium.
- 12 IMViC Test.

III. Answer briefly:

- 13 Inspissation.
- 14 Classification of bacteria based on O₂ requirement.
- 15 Mac Conkey agar.
- 16 Liquid culture media.
- 17 Different pH testing methods in culture media preparation.
- 18 Batch culture.
- 19 Bacteriophage.
- 20 Oxidative fermentative test.
- 21 Sterilization methods for culture media.
- 22 Specific pathogen free animals.

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SECOND YEAR B.Sc. DEGREE (PARAMEDICAL COURSES) [SUPPLEMENTARY] EXAMINATION, NOVEMBER 2019

Medical Laboratory Technology

Paper V—BIOCHEMISTRY—II

(2012 Admissions)

Time: Three Hours

Maximum: 100 Marks

Answer all questions.

Draw diagrams wherever necessary.

Essay:

1. Define Gluconeogenesis. What are the substrates of gluconeogenesis? Write the pathway from any one of the substrate.

(2 + 2 + 6 = 10 marks)

2. Name the plasma lipoproteins. Describe the metabolism of LDL and HDL.

(2 + 8 = 10 marks)

 $[2 \times 10 = 20 \text{ marks}]$

Short notes:

- 3. Glycated hemoglobin.
- 4. Deficiency and assay of Vitamin A.
- 5. Fatty liver.
- 6. Aminoacidurias.
- 7. Gout.
- 8. Protein-Energy malnutrition.
- 9. Diagrammatic representation of Electron Transport Chain.
- 10. Pleural fluid analysis.
- 11. TCA Cycle.
- 12. Abnormal constituents of urine.

Answer briefly:

- 13. A/G ratio.
- Clinical significance of serum Transaminases.
- Hypoglycemia. 15.
- Biologically important compounds synthesized from Tryptophan. 16.
- Functions of prostaglandins. 17.
- Maple Syrup Urine Disease. 18.
- Role of bile acids in our body. 19.
- CHNIK LIBRARY UNIVERSITY Biological role of Niacin. 20.