

**FOURTH SEMESTER (CBCSS—UG) DEGREE EXAMINATION
APRIL 2022**

Economics

ECO 4B 06—MACRO ECONOMICS—II

(2019 Admission onwards)

(Multiple Choice Questions for SDE Candidates)

Time : 15 Minutes

Total No. of Questions : 20

Maximum : 20 Marks

INSTRUCTIONS TO THE CANDIDATE

1. This Question Paper carries Multiple Choice Questions from 1 to 20.
2. The candidate should check that the question paper supplied to him/her contains all the 20 questions in serial order.
3. Each question is provided with choices (A), (B), (C) and (D) having one correct answer. Choose the correct answer and enter it in the main answer-book.
4. The MCQ question paper will be supplied after the completion of the descriptive examination.

ECO 4B 06—MACRO ECONOMICS—II

(Multiple Choice Questions for SDE Candidates)

1. The main type of an employment referred by the Classical :
(A) Voluntary. (B) Involuntary.
(C) Both. (D) None.
2. The concept of disguised unemployment is developed by :
(A) Keynes. (B) Adam Smith.
(C) Nurkse. (D) Samuelsson.
3. The term Stagflation is coined by :
(A) Samuelson. (B) Iain Macleod.
(C) Keynes. (D) None.
4. A business cycle has :
(A) Three phases. (B) Four phases.
(C) Five phases. (D) Six phases.
5. Which of the following is not an objective of monetary policy ?
(A) Price stability. (B) Balance of Payments equilibrium.
(C) Economic growth. (D) Reduction in export.
6. Which of the following is an example of qualitative credit control measure ?
(A) Variable reserve ratio. (B) Prescribing margin requirements.
(C) Discriminatory taxes. (D) Open market operations.
7. Fiscal Policy refers to policy towards :
(A) Public revenue. (B) Public expenditure.
(C) Public debt. (D) All of the above.

8. Economists use the term shocks to mean :
- (A) Unexpected government actions that affect the economy.
 - (B) Typically unpredictable forces that have major impacts on the economy.
 - (C) Sudden rises in oil prices.
 - (D) The business cycle.
9. Peaks and troughs of the business cycle are known collectively as :
- (A) Volatility.
 - (B) Turning points.
 - (C) Equilibrium points.
 - (D) Real business cycle events.
10. Decrease in money supply shift the LM curve to the :
- (A) Right.
 - (B) Left.
 - (C) No change.
 - (D) Any of these.
11. A temporary unemployment which exists during the period of the transfer of labor from one occupation to another is called :
- (A) Voluntary Unemployment.
 - (B) Involuntary Unemployment.
 - (C) Cyclical Unemployment.
 - (D) Frictional Unemployment.
12. When was great Recession ?
- (A) 1929.
 - (B) 2007.
 - (C) 2008.
 - (D) 1930.
13. Fiscal policy in India is formulated by :
- (A) Reserve Bank of India.
 - (B) Planning Commission.
 - (C) Finance Ministry.
 - (D) Securities and Exchange Board of India.
14. Which one of the following is the largest item of expenditure of the Government of India on revenue account ?
- (A) Defense.
 - (B) Pensions.
 - (C) Subsidies.
 - (D) Interest payments.
15. Involuntary unemployment is almost zero in the _____ phase of business cycle.
- (A) Expansion.
 - (B) Contraction.
 - (C) Trough.
 - (D) Depression.

Turn over

16. The economy is said to be overheated at the _____ phase of business cycle.
- (A) Expansion. (B) Peak.
(C) Contraction. (D) Depression.
17. Cost of living increases when business cycle is _____.
- (A) Expanding. (B) Contracting.
(C) At peak. (D) At lowest point.
18. The economist who proposed that, "Inflation is always and everywhere a monetary phenomenon" was :
- (A) John Maynard Keynes. (B) John R. Hicks.
(C) Milton Friedman. (D) Franco Modigliani.
19. An unrealistically low unemployment target will most likely result in :
- (A) Inflation.
(B) An unemployment rate falling below the natural rate.
(C) Excessive monetary growth.
(D) All of the above.
20. According to the monetarists, inflation is caused by :
- (A) Supply shocks. (B) Expansionary fiscal policies.
(C) Expansionary monetary policies. (D) Rising prices.

**FOURTH SEMESTER (CBCSS—UG) DEGREE EXAMINATION
APRIL 2022**

Economics

ECO 4B 06—MACRO ECONOMICS—II

(2019 Admission onwards)

Time : Two Hours and a Half

Maximum : 80 Marks

Section A (Short Answer Questions)

Answer at least ten questions.

Each question carries 3 marks.

All questions can be attended.

Overall Ceiling 30.

1. What is meant by ex-ante investment ?
2. Distinguish between CPI and PPI.
3. What do you mean by financial market ?
4. What is meant by wage push inflation ?
5. State 'Hyperinflation'.
6. Distinguish between core inflation and headline inflation.
7. What is Monetarism ?
8. Define frictional unemployment.
9. Define Stagflation.
10. What is Current Daily Status unemployment ?
11. Define 'Recession'.
12. What is Bond ?
13. What is quantitative easing ?
14. Distinguish between repo and reverse repo rate.
15. What are the responsibilities of Monetary Policy Committee ?

(10 × 3 = 30 marks)

Turn over

Section B (Short Essay Questions)

Answer at least five questions.

Each question carries 6 marks.

All questions can be attended.

Overall Ceiling 30.

16. Examine the causes of the Great depression of 1930s and 2008.
17. Critically examine the short run and long run Phillips curve.
18. What are the important properties of IS curve ?
19. What are the important instruments to mitigate business cycle ?
20. Critically examine the Okun's law.
21. What are the important types of unemployment ?
22. How does inflation affect different sections of people in a society ?
23. Critically examine the Hayek's theory of business cycle.

(5 × 6 = 30 marks)

Section C (Long Essay Questions)

Answer any two questions.

Each question carries 10 marks.

24. Derive IS and LM curves. Discuss the various reasons for a shift in IS and LM curve.
25. What are the important policy instruments to control inflation ?
26. Discuss the effectiveness of fiscal and monetary policies during the great depression of 1930s and 2008.
27. Evaluate the monetarist interpretation of trade cycle. Discuss the contra cyclical policy measures of trade cycle.

(2 × 10 = 20 marks)

**FOURTH SEMESTER (CBCSS—UG) DEGREE EXAMINATION
APRIL 2022**

Economics

ECO 4B 05—QUANTITATIVE METHODS FOR ECONOMIC ANALYSIS—II

(2019 Admission onwards)

(Multiple Choice Questions for SDE Candidates)

Time : 15 Minutes

Total No. of Questions : 20

Maximum : 20 Marks

INSTRUCTIONS TO THE CANDIDATE

1. This Question Paper carries Multiple Choice Questions from 1 to 20.
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ECO 4B 05—QUANTITATIVE METHODS FOR ECONOMIC ANALYSIS—II

(Multiple Choice Questions for SDE Candidates)

1. A good index number is one which satisfies :

1) Unit test ; 2) Time reversal test and 3) Factor reversal test.

Which of the following is correct :

- (A) 1 only. (B) 2 and 3.
(C) 2 only. (D) 1, 2 and 3.

2. Which one of the following index numbers is based on Geometric Mean ?

- (A) Laspeyres index number. (B) Fischer's index number.
(C) Paasches index number. (D) Bowley's index number.

3. The major purpose of price index is to measure change in the _____.

- (A) Standard of living. (B) Gold content of money.
(C) Buying power of money. (D) Capacity to produce.

4. In consumer price index number weights are determining on the basis of _____.

- (A) Actual price of the index.
(B) The consumption pattern of the class of population.
(C) Actual consumption Expenditure.
(D) Both price and consumption expenditure.

5. Laspeyres index measures change in :

- (A) Fixed market basket.
(B) Current consumption.
(C) Both fixed and current market basket.
(D) None.

6. The consumer price index numbers is also known as _____.

- (A) Cost of living index number. (B) Price of living index.
(C) Retail index. (D) All the above.

7. Purchasing power of money :
- (A) Price index \times 100. (B) Price index / 100.
(C) 100/Price index. (D) Real wage.
8. The method which is not used for estimating seasonal components of a time series :
- (A) Ratio to trend method. (B) Link relative method.
(C) Method of simple average. (D) Method of least squares.
9. Paasches index number is based on :
- (A) Base year quantity. (B) Current year quantity.
(C) Day year quantity. (D) None.
10. A function is continuous if :
- (A) $\lim_{x \rightarrow a} f(x) = f(a)$ exist. (B) $f(a)$ is a finite quantity.
(C) Both (A) and (B). (D) None of the above.
11. The minimum of the function $y = 4x^2 + 8$ is at :
- (A) $x = 0$. (B) $x = 8$.
(C) $x = 4$. (D) None of these.
12. A function is said to be minimum :
- (A) $f' = 0$ and $f'' > 0$. (B) $f' = 0$ and $f'' < 0$.
(C) $f' > 0$ and $f'' = 0$. (D) $f' < 0$ and $f'' = 0$.
13. When Revenue is maximum if $R = 3000 - (3 - x)^2$:
- (A) - 9. (B) 9.
(C) - 3. (D) 3.
14. What is the probability that the first card extracted from well-shuffled standard deck of 52 playing cards is an ace ?
- (A) $\frac{4}{52}$. (B) $\frac{2}{52}$.
(C) $\frac{13}{52}$. (D) $\frac{3}{52}$.

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APRIL 2022

Economics

ECO 4B 05—QUANTITATIVE METHODS FOR ECONOMIC ANALYSIS—II

(2019 Admission onwards)

Time : Two Hours and a Half

Maximum : 80 Marks

Section A

Answer at least ten questions.

Each question carries 3 marks.

All questions can be attended.

Overall Ceiling 30.

1. Evaluate the limit of the function :

$$\lim_{x \rightarrow 3} \frac{x^2 - 3x + 2}{x^2 - 5x + 6}$$

2. Find the derivative for the following function 'y' first principles :

(i) $4x^2 + 2x + 3$;

(ii) $\frac{x+2}{x-1}$;

(iii) e^x ; and

(iv) $\log x$.

3. What are the important conditions for Maxima and Minima ?

4. Explain the relationship between AC and MC.

5. What are the important utilities of Consumer price indices ?

6. What is Marshall- Edgeworth index number ?

7. What do you mean by Moving average method ?
8. What do you mean by Vital Statistics ?
9. Define Crude death rate.
10. How to find the growth of population ?
11. Explain the term (i) Sample space ; and (ii) Random experiments
12. Explain the term (i) Equally like events ; and (ii) Exhaustive events
13. A die is thrown. Find the probability of getting (i) a '4' ; (ii) an even number ; (iii) less than 3 ; and (iv) '3' or '5'.
14. Explain the Classical definition of Probability.
15. From a bag containing 10 black and 20 white balls, a ball is drawn at random. What is the probability that it is black ?

(10 × 3 = 30 marks)

Section B (Short Essay Questions)

Answer at least five questions.

Each question carries 6 marks.

All questions can be attended.

Overall Ceiling 30.

16. Find the Elasticity of demand for the demand function $x = \frac{27}{p^3}$.
17. (i) Find $\frac{dy}{dx}$ if $y = (x - 4)^5 + \log 3x + 7e^{x-1}$.
(ii) Find the value of $\frac{dy}{dx}$ if $2x^2 - 3xy + y^2 = 0$.
18. Define Trend. What are the various methods of measuring it ?

19. From the data given below construct the Consumer Price index number :

Commodity	Price relatives	weights
Food	250	45
Rent	150	15
Clothing	320	20
Fuel and lighting	190	5
Miscellaneous	300	15

20. What are the important measurements of Fertility ?
21. What are the important methods of obtaining Vital Statistics in India ?
22. One card is drawn from a standard pack of 52. What is the probability that is either a king or a queen ?
23. Explain the concept of Mutually exclusive events with an example.

(5 × 6 = 30 marks)

Section C (Long Essay Questions)

Answer any two questions.

Each question carries 10 marks.

24. Calculate Fisher's ideal index from the following data and prove that it satisfies both the time reversal and factor reversal tests :

Commodity	2018		2019	
	Price	Expenditure	Price	Expenditure
A	8	80	10	120
B	10	120	12	96
C	5	40	5	50
D	4	56	3	69
E	20	100	25	150

25. Define Probability. Briefly explain different types of Probability.

Turn over

26. (i) What are the important uses of Vital Statistics ?
(ii) What are the different measurements of Mortality ?

27. (i) Differentiate $y = \frac{(x+1)(2x+1)}{(x-3)}$.

(ii) Differentiate $x^5 + e^x$.

(2 × 10 = 20 marks)

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FOURTH SEMESTER (CUCBCSS—UG) DEGREE EXAMINATION, APRIL 2022**Economics****ECO 3C 04 AND ECO 4C 04—MATHEMATICAL TOOLS FOR ECONOMICS III AND IV****(2014—2018 Admissions)****(Multiple Choice Questions for SDE Candidates)****Time : 15 Minutes****Total No. of Questions : 20****Maximum : 20 Marks****INSTRUCTIONS TO THE CANDIDATE**

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ECO 3C 04 AND ECO 4C 04—MATHEMATICAL TOOLS FOR ECONOMICS III AND IV

(Multiple Choice Questions for SDE Candidates)

1. If $u = f(x)$ and $v = g(x)$, then $\frac{dy}{dx} \left(\frac{u}{v} \right)$ equal :
- (A) $\frac{v \frac{du}{dx} - u \frac{dv}{dx}}{v^2}$. (B) $\frac{d}{dx} u - \frac{d}{dx} v$.
- (C) $\frac{du}{dx} \div \frac{dv}{dx}$. (D) None of these.
2. $\frac{dy}{dx}$ of the function $y = x^4$ is $4x^3$ then $\frac{dx}{dy}$ equals :
- (A) $\frac{1}{4}x^3$. (B) $3x^4$.
- (C) $12x^2$. (D) None of these.
3. If $y = 3x^2 + 5f''(x)$ is :
- (A) 6. (B) 0.
- (C) $6x$. (D) $6x + 5$.
4. A function $y = f(x)$ is decreasing if :
- (A) $x_1 < x_2$ and $f(x_1) \leq f(x_2)$. (B) $x_1 > x_2$ and $f(x_1) \leq f(x_2)$.
- (C) $x_1 < x_2$ and $f(x_1) \geq f(x_2)$. (D) $x_1 > x_2$ and $f(x_1) \geq f(x_2)$.
5. If the graph of the function lies completely below its tangent line the function is :
- (A) Convex function. (B) Concave function.
- (C) Increasing function. (D) Decreasing function.
6. If the second derivative of $f(x)$ is positive then the function is said to be :
- (A) Increasing. (B) Decreasing.
- (C) Convex. (D) Concave.
7. If the second derivative of a function is equal to zero, then the function at that point is :
- (A) Point of inflection. (B) Increasing.
- (C) Decreasing. (D) Convex.

8. Without graphing the function we can obtain a good picture of graph of function using :
- (A) First derivative. (B) Second derivative.
(C) Both first and second derivative. (D) None of these.
9. A function is said to be maximum at $x = a$ if :
- (A) $\frac{dy}{dx} > 0$. (B) $\frac{dy}{dx} < 0$.
(C) $\frac{d^2y}{dx^2} > 0$. (D) $\frac{d^2y}{dx^2} < 0$.
10. At $x = 1$ the function $y = 3x^2 - 6x + 10$ attain :
- (A) Maximum. (B) Minimum.
(C) Inflection point. (D) Monotonous.
11. When $AR = 20$ and $MR = -60$, the price elasticity of demand is :
- (A) $\frac{1}{4}$ (B) $-\frac{1}{2}$
(C) 40. (D) 80.
12. The derivative of a constant is equal to :
- (A) 0. (B) 1.
(C) -1. (D) A positive number if the constant is positive.
13. If the product of second order direct partial derivatives is less than the product of cross partial derivatives, and both the direct partial derivatives have the same signs, the function is at :
- (A) Inflection point. (B) Saddle point.
(C) Inconclusive. (D) All the above.
14. Lagrange multipliers are often referred to as :
- (A) Shadow prices. (B) Constraint prices.
(C) Optimum value. (D) None of these.
15. Given $z = f(x, y)$ and $y = g(x)$, the total derivative of z with respect to x measures :
- (A) The direct effect of y on z .
(B) The direct effect of x on z plus the indirect effect of x on z through y .
(C) The direct effect of x on z only.
(D) The indirect effect of x on z through y .

16. The marginal product of input K, given the production function $Q = 10 KL - 4K^2 - 5L^2$ is :
- (A) $10 L - 8K$. (B) $10 L - 4 K$.
(C) $- 8K$. (D) $4 - 5L$.
17. The integral of $x - 1$ is :
- (A) $x + c$. (B) x .
(C) $\ln x + c$. (D) None of these.
18. The area under a graph of a continuous function can be expressed using :
- (A) Definite integral. (B) Indefinite integral.
(C) Derivative. (D) Differential.
19. Reversing the order of the limits :
- (A) Changes the sign of the definite integral.
(B) Changes the value of the integral.
(C) Not affects value or sign of definite integral.
(D) All the above.
20. Which of the following consists of first order partial derivative ?
- (A) Hessian. (B) Discriminant.
(C) Determinant. (D) Jacobian.

FOURTH SEMESTER (CUCBCSS—UG) DEGREE EXAMINATION, APRIL 2022

Economics

ECO 3C 04 AND ECO 4C 04—MATHEMATICAL TOOLS FOR ECONOMICS III AND IV

(2014—2018 Admissions)

Time : Three Hours

Maximum : 80 Marks

Answers may be written either in English or in Malayalam.

Section A (Objective Type Questions)

PART I

*Answer all questions.**Each question carries ½ mark.*

1. Find $\lim_{x \rightarrow 1} \frac{x^2 - 1}{x - 1}$:

(a) 2.

(b) 4.

(c) 3.

(d) 6.

2. If $y = f(x)$ some constant, then $\frac{dy}{dx} = 0$.

(a) Product rule.

(b) Constant rule.

(c) Logarithmic rule.

(d) Quotient rule.

3. A point where a curve changes shape :

(a) Optimization.

(b) Equilibrium.

(c) Satisfaction.

(d) Inflection point.

4. If $y = e^{4x}$ find $\frac{dy}{dx}$:

(a) e^{4x} .(b) $4e^{4x}$.(c) e^x .(d) $4e^x$.

5. The change in total revenue brought about by the sale of an extra good :

(a) Marginal revenue.

(b) Average revenue.

(c) Marginal product.

(d) Marginal cost.

Turn over

6. The ratio of the relative change in demand to the relative changes in price :
- (a) Cross elasticity. (b) Income elasticity.
(c) Output elasticity. (d) Price elasticity.

(6 × ½ = 3 marks)

PART II

*Answer all questions.
Each question carries ½ mark.*

7. The necessary condition for a maximum or a minimum is $\frac{dy}{dx}$:
- (a) 0. (b) < 0.
(c) > 0. (d) None of these.
8. The $d^2(TC)/dQ^2$:
- (a) Marginal revenue. (b) Marginal cost.
(c) Average cost. (d) Average revenue.
9. Find $\int 5.5x$:
- (a) $5.5x$. (b) $x + 5.5$.
(c) $5.5x + c$. (d) $5.5c + x$.
10. Find definite integral $\int_0^6 5x dx$:
- (a) 90. (b) 45.
(c) 30. (d) 5.
11. The Linear Homogeneous Production Function implies that with the proportionate change in all the factors of production :
- (a) Constant returns to scale. (b) Decreasing returns to scale.
(c) Increasing returns to scale. (d) None of these.
12. If $MRTS_{LK} = 2$ then $\frac{MPk}{MPL}$ is :
- (a) 1. (b) 4.
(c) 2. (d) ½.

(6 × ½ = 3 marks)

Section B (Very Short Answer Type Questions)**PART I**

Answer any five questions.

Each question carries 2 marks.

13. Find $\lim_{x \rightarrow 1} \frac{x^2 - 4x - 5}{x - 1}$.

14. Define the term Continuity.

15. Differentiate $e^x \log x$.

16. What is cross elasticity of demand ?

17. Find the elasticity of demand for the demand function $x = \frac{27}{p^3}$.

18. Given $P = Q^2 + 2Q + 1$, find the TR function.

(5 × 2 = 10 marks)

PART II

Answer any five questions.

Each question carries 2 marks.

19. Find the partial derivatives of the function $y = 6x^2z$.

20. What is the total differential of $y = 6x^2 + 8z^2 - 0.3xz$.

21. Explain the concept of Constrained Optimization.

22. Integrate $\frac{x^2}{x + 2}$.

23. Briefly explain the implicit and explicit functions.

24. Find the average cost and the marginal cost functions from the total cost function
 $TC = 60 + 10x + 15x^2$.

(5 × 2 = 10 marks)

Turn over

Section C (Short Essay Questions)

PART I

*Answer any **three** questions.
Each question carries 5 marks.*

25. Determine the maxima and minima value of : $x^3 - 6x^2 + 9x - 5$.

26. Find $\lim_{x \rightarrow 4} \frac{x^2 - 4^4}{x^2 - 4^2}$.

27. Explain the conditions for profit maximization.

28. Briefly explain the relationship between TC, AC and MC curves graphically.

(3 × 5 = 15 marks)

PART II

*Answer any **three** questions.
Each question carries 5 marks.*

29. Find price elasticity when price is 12 for the demand function $p = 60 - 3q$?

30. The marginal cost function for some product is $(1 + 2x + 6x^2)$ where x is the output. Find the total cost function using Integral Calculus if the fixed cost is Rs. 100 when the output is zero.

31. Briefly explain the various concepts of Elasticity of demand.

32. Find the partial derivatives of $U = 3x^2y^2 + y^2$.

(3 × 5 = 15 marks)

Section D (Essay Questions)

PART I

*Answer any **one** question.
The question carries 12 marks.*

33. Briefly explain the uses of derivatives in Economics.

34. The demand for a commodity is $D = 35 - 7P$. The Supply function is $S = 2P - 5$. Find the equilibrium price.

(1 × 12 = 12 marks)

PART II

*Answer any **one** question.
The question carries 12 marks.*

35. Optimize the function $Z = 4x^2 + 3xy + 6y^2$ subject to the constraint $x + y = 56$.

36. Find the first, second, and cross partial derivatives for $z = 2x^3 - 11x^2y + 3y^2$.

(1 × 12 = 12 marks)

**FOURTH SEMESTER (CUCBCSS—UG) DEGREE EXAMINATION
APRIL 2022**

Economics

ECO 3C 02 AND ECO 4C 02—CO-OPERATION III AND IV

(2014—2018 Admissions)

Time : Three Hours

Maximum : 80 Marks

Answer may be either in English or in Malayalam.

Section A (Objective Type Questions)

PART I

Answer all questions.

Each question carries ½ mark.

1. NAFED was established in the year :
 - a) 1988.
 - b) 1958.
 - c) 1968.
 - d) 1978.
2. Committee related to co-operative farming is :
 - a) Damle committee.
 - b) Saraiya Committee.
 - c) Both (a) and (b).
 - d) None of these.
3. The first Dairy Co-operative Society of India was registered in 1913 at :
 - a) Anand in Gujarat.
 - b) Allahabad in UP.
 - c) Aurangabad in Maharashtra.
 - d) Ahmedabad in Gujarat.
4. Operation flood is a programme related :
 - a) Flood control.
 - b) Fisheries.
 - c) Sericulture.
 - d) Dairy development.
5. Agro-processing, agro-marketing and ICDP are the main trust areas of :
 - a) NCDC.
 - b) NCB.
 - c) NABARD.
 - d) ICA.

Turn over

6. The Head office of NCDC is at :

- a) Calcutta.
- b) Mumbai.
- c) Chennai.
- d) Delhi.

(6 × ½ = 3 marks)

PART II

*Answer all questions.
Each question carries ½ mark.*

7. NCCT is responsible for :

- a) Training of Human Resource of Co-Operatives.
- b) Recruitment of Human Resource for Co-operatives.
- c) Transfer of Human Resource of Co-Operatives.
- d) All the above.

8. Kudumbashree in Kerala has been functioning under :

- a) Kerala State Women's Commission.
- b) National Commission for Women.
- c) Local Self Government Department.
- d) Social Justice Department.

9. The objective of Kudumbashree is :

- a) Microcredit.
- b) Women Entrepreneurship.
- c) Women Empowerment
- d) All of these.

10. The Vaidhyathan committee was constituted in the year :

- a) 1964.
- b) 1974.
- c) 1994.
- d) 2004.

11. Multipurpose societies are otherwise called as :

- a) Discourse.
- b) Polyvalent.
- c) Univalent.
- d) Multilateral.

12. Apex marketing cooperatives in Kerala is :

- | | |
|---------------|-----------------|
| a) RUBCO. | b) CONSUMERFED. |
| c) MARKETFED. | d) KERAFED. |

(6 × ½ = 3 marks)

Section B (Very Short Answer Type Questions)

PART I

Answer any five questions.

Each question carries 2 marks.

13. Distinguish between collective farming and co-operative farming.
14. What is co-operative management ?
15. Write a note on 'Anand' pattern.
16. Prepare a note on IFFCO.
17. What is meant by cooperative warehousing ?
18. Prepare a note on HUDCO.

(5 × 2 = 10 marks)

PART II

Answer any five questions.

Each question carries 2 marks.

19. Examine the structure of NCCT.
21. What is VAMNICOM ?
20. What is meant by human resource development ?
22. Prepare a note on MILMA.
23. What is meant by SHGs ?
24. Define Decentralization.

(5 × 2 = 10 marks)

Turn over

Section C (Short Essay Questions)**PART I**

*Answer any three questions.
Each question carries 5 marks.*

25. What are the important objectives of consumer co-operatives ?
26. What are the important cooperative farming societies ?
27. What is meant by processing co-operatives ? State its advantages.
28. Examine the benefits of co-operative agriculture marketing.

(3 × 5 = 15 marks)

PART II

*Answer any three questions.
Each question carries 5 marks.*

29. What are the important objectives of NCCT ?
30. State the need for co-operative education.
31. Critically examine the various recommendations of the Vaidyanathan committee.
32. Prepare a note on the consumer co-operatives of Kerala.

(3 × 5 = 15 marks)

Section D (Essay Questions)**PART I**

*Answer any one question.
The question carries 12 marks.*

33. Explain the various functions and objectives of NABARD.
34. Examine the objectives and functions of dairy cooperatives in India ? State the major problems confronted by dairy cooperatives of India.

(1 × 12 = 12 marks)

PART II

*Answer any one question.
The question carries 12 marks.*

35. Trace the history of the co-operative movement in Kerala.
36. Examine the role of Kudumbashree in the empowerment of women.

(1 × 12 = 12 marks)

C 21361-A

(Pages : 4)

Name.....

Reg. No.....

**FOURTH SEMESTER (CUCBCSS—UG) DEGREE EXAMINATION
APRIL 2022**

Economics

**ECO 3C 01 AND ECO 4C 01—ESSENTIALS OF ECONOMICS—MONEY, BANKING,
FINANCE AND TRADE AND INDIAN ECONOMY**

(2014—2018 Admissions)

(Multiple Choice Questions for SDE Candidates)

Time : 15 Minutes

Total No. of Questions : 20

Maximum : 20 Marks

INSTRUCTIONS TO THE CANDIDATE

1. This Question Paper carries Multiple Choice Questions from 1 to 20.
2. The candidate should check that the question paper supplied to him/her contains all the 20 questions in serial order.
3. Each question is provided with choices (A), (B), (C) and (D) having one correct answer. Choose the correct answer and enter it in the main answer-book.
4. The MCQ question paper will be supplied after the completion of the descriptive examination.

ECO 3C 01 AND ECO 4C 01 --ESSENTIALS OF ECONOMICS—MONEY, BANKING,
FINANCE AND TRADE AND INDIAN ECONOMY

(Multiple Choice Questions for SDE Candidates)

1. Balance of payment take in to account :
 - (A) Visible items.
 - (B) Invisible items.
 - (C) Both visible and invisible item.
 - (D) None of the above.
2. Which is the component of capital account of balance of payment :
 - (A) Service payments.
 - (B) Portfolio investment.
 - (C) Export.
 - (D) Interest receipts.
3. Price revenue is popularly known as :
 - (A) Market borrowing.
 - (B) Government borrowing.
 - (C) Commercial revenue.
 - (D) Surplus of public undertakings.
4. A tax is :
 - (A) Voluntary contribution with direct benefit.
 - (B) Compulsory contribution with indirect benefit.
 - (C) Compulsory Contribution with no direct benefit.
 - (D) None of the above.
5. When income of the government is greater than its expenditure, the budget is :
 - (A) Balanced.
 - (B) Surplus.
 - (C) Deficit.
 - (D) None of the above.
6. When income and expenditure of the government are equal, the budget is :
 - (A) Deficit.
 - (B) Surplus.
 - (C) Balanced.
 - (D) None of the above.
7. The average annual growth rate of agriculture realized in the 11th Five Year Plan :
 - (A) 4 %.
 - (B) 3.3 %.
 - (C) 5 %.
 - (D) 6 %.

8. The first Industrial Policy Resolution was passed in India in :
- (A) 1948. (B) 1950.
(C) 1947. (D) 1958.
9. Which is the largest contributing sector to India's GDP ?
- (A) Agriculture. (B) Industry.
(C) Service. (D) None.
10. In the service sector which subsector shows highest growth rate ?
- (A) Trade, hotels and restaurants.
(B) Financing, Insurance, Real Estate.
(C) Community, Social and Personal services.
(D) Transport, storage and communication.
11. The People's Campaign for Decentralized Planning was formally inaugurated on :
- (A) 15th August 1995. (B) 11th November 1994.
(C) 17th August 1996. (D) None.
12. The literacy rate of Kerala in 2011 :
- (A) 91.91. (B) 90.92.
(C) 93.91. (D) 95.94.
13. The percentage contribution of tourism to the state economy in 2010-11 is :
- (A) 7 %. (B) 8 %.
(C) 6 %. (D) 9 %.
14. World Bank's New International Poverty Line is based on :
- (A) \$1.25 per day. (B) \$2 per day.
(C) \$1.50 per day. (D) \$2.5 per day.
15. Which of the following is an urban employment generation programme ?
- (A) MGNREGS. (B) SGSY.
(C) SJSRY. (D) PMGSY.

Turn over

16. Which of the following Five Year Plans was terminated one year before its completion ?
- (A) Second. (B) Third.
(C) Fourth. (D) Fifth.
17. Attainment of economic self reliance and removal of poverty were the main objectives of :
- (A) First Five Year Plan. (B) Fourth Five Year Plan.
(C) Fifth Five Year Plan. (D) Sixth Five Year Plan.
18. Economic planning is an essential feature of :
- (A) Dual economy. (B) Mixed economy.
(C) Capitalist economy. (D) Socialist economy.
19. A major shift in the Eighth Five Year Plan from it preceding ones was:
- (A) The concentration of investment in infrastructural sector.
(B) Major investment in agriculture with a view to promoting exports.
(C) Major investment in sectors where industrial sickness has been a chronic problem.
(D) The significant reduction in public sector outlays.
20. Which of the following is not related to commodity money ?
- (A) All commodities were not uniform in quality.
(B) It is difficult to store and prevent the loss of value.
(C) They lacked portability.
(D) There was no problem of coincidence of wants.

**FOURTH SEMESTER (CUCBCSS—UG) DEGREE EXAMINATION
APRIL 2022**

Economics

ECO 3C 01 AND ECO 4C 01—ESSENTIALS OF ECONOMICS—MONEY, BANKING,
FINANCE AND TRADE AND INDIAN ECONOMY

(2014—2018 Admissions)

Time : Three Hours

Maximum : 80 Marks

Section A

*Answer all twelve questions.
(Objective Type Questions).
Each question carries ½ marks.*

1. Salary and interest payments are examples of :
 - (a) Capital expenditure.
 - (b) Revenue Expenditure.
 - (c) Capital receipts.
 - (d) Revenue receipts.
2. The apex bank of India is :
 - (a) SBI.
 - (b) SEBI.
 - (c) RBI.
 - (d) IMF.
3. Remittances by Indians working abroad to India is recorded in the :
 - (a) Current account.
 - (b) Capital account.
 - (c) Trade account.
 - (d) Credited in the capital account.
4. Depreciation of currency means :
 - (a) Deliberate reduction in the value of the currency by the monetary authority.
 - (b) Fall in the value of the currency.
 - (c) The rise in the value of the currency.
 - (d) Depletion of foreign exchange reserves.
5. Which of the following is NOT an example of fiscal policy ?
 - (a) Public borrowing.
 - (b) Public expenditure.
 - (c) The rise in tax rates.
 - (d) Fall in interest rates.

Turn over

6. Which of the following is an example of quantitative monetary policy measure ?
- (a) Directions and issuing circulars.
 - (b) Periodic instructions.
 - (c) Bank rate.
 - (d) Direct action and punishments.
7. Lorenz ratio is generally used to measure :
- (a) Unemployment.
 - (b) Inequality.
 - (c) IMR.
 - (d) Poverty.
8. The period of the Fourth Five Year Plan is :
- (a) 1969 - 1974.
 - (b) 1961 - 1966.
 - (c) 1966 - 1971.
 - (d) 1956 - 1961.
9. The sector contributing the largest share to the Indian economy is :
- (a) Primary sector.
 - (b) Secondary sector.
 - (c) Construction sector.
 - (d) Service sector.
10. MRTP Act was abolished as part of :
- (a) IPR 1956.
 - (b) IPR 1985.
 - (c) IPR 1991.
 - (d) IPR 1948.
11. People's Planning was started in Kerala in the :
- (a) 11th Plan.
 - (b) 12th Plan.
 - (c) 10th Plan.
 - (d) 9th Plan.
12. The agency formulating, monitoring and assessing the implementation 13th Five-year plan in Kerala is :
- (a) Directorate of Economics and Statistics.
 - (b) Office of the Chief Minister of Kerala.
 - (c) State Planning Board.
 - (d) NITI Aayog.

(12 × ½ = 6 marks)

Section B (Very Short Answer Type Questions)**PART I**

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

13. Write any four economic activities included in the service sector.
14. What are the causes of poverty ?
15. What were the objectives of the first-year plan of India ?
16. What do you mean by decentralized planning ?
17. Write a note on the importance of the agricultural sector.
18. Explain the objectives of Land reforms in India.

PART II

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

19. What are the functions of money ?
20. What is the demand for money ?
21. Define deflation.
22. What is devaluation ?
23. What are the Non-Tax Revenues ?
24. What is the budget ?

(10 × 2 = 20 marks)

Section C (Short Essays)**PART I**

*Answer any three questions.
Each question carries 5 marks.*

25. Distinguish between internal and external trade.
26. Distinguish between monetary policy and fiscal policy.
27. What are the problems that may cause due to the excess practice of deficit financing ?
28. Distinguish the impacts of inflation and deflation.

Turn over

PART II

*Answer any three questions.
Each question carries 5 marks.*

29. Explain the impacts of economic reforms on Indian agriculture.
30. Explain the role of migration and remittances in the development of Kerala.
31. What are the challenges in the higher education sector of Kerala?
32. Write a brief note on the economic and social impacts of inequality in our society.

(6 × 5 = 30 marks)

Section D (Essays)

PART I

Answer any one question.

33. Critically assess the achievements and failures of India's Five-Year Plans.
34. Explain briefly about the green revolution strategy of India. What were its limitations ?

PART II

Answer any one question.

35. Explain briefly about the role and importance of the Finance Commission in India.
36. Explain the role and significance of commercial banks.

(2 × 12 = 24 marks)

**FOURTH SEMESTER (CUCBCSS—UG) DEGREE EXAMINATION
APRIL 2022****Economics****ECO 4B 06—COMPUTER APPLICATION FOR ECONOMIC ANALYSIS****(2014—2018 Admissions)****(Multiple Choice Questions for SDE Candidates)****Time : 15 Minutes****Total No. of Questions : 20****Maximum : 20 Marks****INSTRUCTIONS TO THE CANDIDATE**

1. This Question Paper carries Multiple Choice Questions from 1 to 20.
2. The candidate should check that the question paper supplied to him/her contains all the 20 questions in serial order.
3. Each question is provided with choices (A), (B), (C) and (D) having one correct answer. Choose the correct answer and enter it in the main answer-book.
4. The MCQ question paper will be supplied after the completion of the descriptive examination.

ECO 4B 06—COMPUTER APPLICATION FOR ECONOMIC ANALYSIS

(Multiple Choice Questions for SDE Candidates)

1. Which unit holds data permanently ?
 - (A) Input unit.
 - (B) Secondary storage unit.
 - (C) Output Unit.
 - (D) Primary Memory Unit.
2. Which company is the biggest player in the microprocessor industry ?
 - (A) Motorola.
 - (B) IBM.
 - (C) Intel.
 - (D) AMD.
3. Which generation of computer is still under development ?
 - (A) Fourth Generation.
 - (B) Fifth Generation.
 - (C) Sixth Generation.
 - (D) Seventh Generation.
4. Which of the following is a secondary memory device ?
 - (A) Keyboard.
 - (B) Disk.
 - (C) ALU.
 - (D) All of the above.
5. Which of the following is not a type of page margin ?
 - (A) Normal.
 - (B) Narrow.
 - (C) Moderate.
 - (D) Middle.
6. Which of the following is not an essential component to create mail merge ?
 - (A) Main document.
 - (B) Data source.
 - (C) Merge fields.
 - (D) Word fields.
7. From where you can access save command.
 - (A) Home tab.
 - (B) Insert tab.
 - (C) Review tab.
 - (D) None of above.
8. In Word 2007 the Zoom is placed on :
 - (A) View tab.
 - (B) Home tab.
 - (C) Status bar.
 - (D) Both (A) and (C).

9. Which among the following represents a union type cell reference in Excel ?
- (A) (A10 : A20). (B) (B10 : B20).
(C) (A10, A20). (D) A10.
10. _____ useful to display trend of an economic variable over a time period.
- (A) Line chart. (B) Bar chart.
(C) Pie Chart. (D) Scatter plot.
11. The function library is available under _____ tab.
- (A) Formula. (B) Insert.
(C) Data. (D) Review.
12. Getting data from a cell located in a different sheet is called _____.
- (A) Accessing. (B) Referencing.
(C) Updating. (D) Functioning.
13. _____ refers to displaying only the rows that meet certain conditions and the remaining rows are hidden.
- (A) Filtering. (B) Sorting.
(C) Numbering. (D) Formatting.
14. The intersection of a row and column is known as :
- (A) Cell. (B) Chart.
(C) Formula. (D) Value.
15. The Background style of a power point presentation is known as :
- (A) Animation. (B) Theme.
(C) Transition. (D) Effects.
16. Which of the following is not an option of transition ?
- (A) Wipes. (B) Push and cover.
(C) Random. (D) Oriel.

17. The arrangement of elements such as title and subtitle text, pictures, tables etc. is called :
- (A) Layout. (B) Presentation.
(C) Design. (D) Scheme.
18. Which of the following font effect is not available PowerPoint font dialog box ?
- (A) Underline. (B) Shadow.
(C) Emboss. (D) Strikethrough.
19. Which command brings you to the first slide in your presentation ?
- (A) Next slide button. (B) Page up.
(C) Ctrl + Home. (D) Ctrl + End.
20. What is internet ?
- (A) A single network.
(B) A vast collection of different networks.
(C) Interconnection of local area networks.
(D) None of the mentioned.

**FOURTH SEMESTER (CUCBCSS—UG) DEGREE EXAMINATION
APRIL 2022**

Economics

ECO 4B 06—COMPUTER APPLICATION FOR ECONOMIC ANALYSIS

(2014—2018 Admissions)

Time : Three Hours

Maximum : 80 Marks

Answers may be written either in English or in Malayalam.

Section A (Objective Type Questions)

Answer all twelve questions.

Each question carries ½ mark.

1. The keyboard shortcut for 'Save' command is :
 - (a) Ctrl + V.
 - (b) Ctrl + S.
 - (c) Ctrl + P.
 - (d) Alt + S.
2. Bluetooth is an example of :
 - (a) Personal area network.
 - (b) Local area network.
 - (c) Virtual private network.
 - (d) None of the mentioned.
3. A page in the Web is created by using the language is called :
 - (a) .HDML.
 - (b) URL.
 - (c) PDF.
 - (d) HTML.
4. Signals can be analog or digital and a computer that processes the both type of signals is known as :
 - (a) Analog computer.
 - (b) Digital Computer.
 - (c) Hybrid Computer.
 - (d) Mainframe Computer.
5. IP stands for :
 - (a) Internal protocol.
 - (b) Interest protocol.
 - (c) Internet protocol.
 - (d) None of the given.

6. Central Processing Unit is combination of :
- (a) Control and storage.
 - (b) Control and output unit.
 - (c) Arithmetic logic and input unit.
 - (d) Arithmetic logic and control unit.
7. It is a tool which allows you to create form letters, mailing labels and envelopes by linking a main document to a set of data or data source :
- (a) Tool bar.
 - (b) Mail group.
 - (c) Mail merge.
 - (d) None of these.
8. A network, which is used for sharing data, software and hardware among several users of microcomputers, is called :
- (a) Wide Area Network.
 - (b) Metropolitan Area Network.
 - (c) Local Area Network.
 - (d) Value Added Network.
9. Computer system comprises of major units :
- (a) Input unit, output unit, control unit.
 - (b) Input unit, output unit, control unit and storage.
 - (c) Input unit, output unit, central processing unit and storage unit.
 - (d) Input, output and storage units.
10. The keyboard short cut for creating a new document is :
- (a) Alt + N.
 - (b) Ctrl + N.
 - (c) Alt + D.
 - (d) Ctrl + D.
11. A search engine is a program to search :
- (a) For information.
 - (b) Web pages for specified index terms.
 - (c) Web pages.
 - (d) Web pages for information using specified search terms.
12. Which application for using mathematical and statistical calculations :
- (a) MS Excel.
 - (b) MS Powerpoint.
 - (c) MS Outlook.
 - (d) MS Word.

(12 × ½ = 6 marks)

Part B (Very Short Answer Type Questions)

Answer any ten questions.

Each question carries 2 marks.

13. What is Database Management System ?
14. What is Control unit of Computer.
15. Give some examples of high-level computer languages.
16. What is debugging ?
17. What is WWW ?
18. What do you mean by Spread sheet packages ?
19. What are the steps involved in measurement of trend in graphically ?
20. What is meant by Hyper Text Transfer Protocol ?
21. What is DSL ?
22. Distinguish between Internet and Intranet.
23. Distinguish between primary storage and secondary storage.
24. Distinguish between WAN and LAN.

(10 × 2 = 20 marks)

Part C (Short Essay Questions)

Answer any six questions.

Each question carries 5 marks.

25. Explain Programming languages.
26. Explain graphical packages for economic analysis.
27. Distinguish between freeware and shareware.
28. What are the main features of word processor ?
29. Write a note on parts of MS Excel window.
30. What are the advantages of using power point ?

Turn over

31. Write a short note on Social network sites.
32. Write a short note on recent Electronic cash payment mechanism.

(6 × 5 = 30 marks)

Part D (Essay Questions)

Answer any two questions.

Each question carries 12 marks.

33. Briefly explain MS Excel and its representation of data using diagrams and graphs.
34. Explain Mail merge. What are the advantages of mail merge ?
35. Briefly explain the important statistical, mathematical and financial tools for computer applications in economic analysis.
36. Explain the important components of Computer and point out its features and limitations.

(2 × 12 = 24 marks)

FOURTH SEMESTER (CUCBCSS—UG) DEGREE EXAMINATION, APRIL 2022

Economics

ECO 4B 05—QUANTITATIVE METHODS FOR ECONOMIC ANALYSIS—II

(2014—2018 Admissions)

(Multiple Choice Questions for SDE Candidates)

Time : 15 Minutes**Total No. of Questions : 20****Maximum : 20 Marks****INSTRUCTIONS TO THE CANDIDATE**

1. This Question Paper carries Multiple Choice Questions from 1 to 20.
2. The candidate should check that the question paper supplied to him/her contains all the 20 questions in serial order.
3. Each question is provided with choices (A), (B), (C) and (D) having one correct answer. Choose the correct answer and enter it in the main answer-book.
4. The MCQ question paper will be supplied after the completion of the descriptive examination.

ECO 4B 05—QUANTITATIVE METHODS FOR ECONOMIC ANALYSIS—II

(Multiple Choice Questions for SDE Candidates)

1. Which one of the following is line reversal list ?
 - (A) $P_{01} \times Q_{01} = \frac{\sum p_1 q_1}{\sum p_0 q_0}$.
 - (B) $P_{01} \times P_{10} = 1$.
 - (C) $P_{01} \times P_{12} \times P_{20} = 1$.
 - (D) $P_{01} \times P_{10} \neq 1$.

2. Which one of the following statement is correct ?
 - (A) Laspyres' index shows an upward bias.
 - (B) Paastes' index shows an upward bias.
 - (C) Laspyres' index shows a downward bias.
 - (D) Paasches' index shows an downward bias.

3. Which one of the following indices satisfies both time reversal and factor reversal list ?
 - (A) Lasperyres index number.
 - (B) Fischer's index number.
 - (C) Paasches index number.
 - (D) Bowley's index number.

4. Which one of the following index numbers is based on Geometric Mean ?
 - (A) Lasperyres index number.
 - (B) Fischer's index number.
 - (C) Paasches index number.
 - (D) Bowley's index number.

5. The major purpose of price index is to measure change in the _____.
 - (A) Standard of living.
 - (B) Cold content of money.
 - (C) Buying power of money.
 - (D) Capacity to produce.

6. In consumer price index number weights are determing on the basis of _____.
 - (A) Actual price of the index.
 - (B) The consumption pattern til the class of population.
 - (C) Actual consumption Expenditure.
 - (D) Both price and consumption expenditure.

7. Fishers ideal index is obtained as :

- (A) The sum of Laspeyre's and paasche's indices.
- (B) The geometric mean of Laspeyer's and paasche's indices.
- (C) The arithmetic mean of Laspeyer's and paasche's indices.
- (D) The harmonic mean of Laspeyre's and paasche's indices.

8. Laspeyres index measures change in :

- (A) Fixed market basket.
- (B) Current consumption.
- (C) Both fixed and current market basket.
- (D) None.

9. The consumer price index Numbers is also known as _____.

- (A) Cost of living index number.
- (B) Price of living index.
- (C) Retail index.
- (D) All the above.

10. Factor reversal list permits the interchange of

- (A) Base periods.
- (B) Price and quantity.
- (C) Weights.
- (D) None of these.

11. Cost of living index is known as :

- (A) Consumer price index.
- (B) Whole sale price index.
- (C) Quantity index.
- (D) None.

12. The formula, $P_{01} \times Q_{01} = \frac{\sum p_1 q_1}{\sum p_0 q_0}$ shows :

- (A) Factor reversal test.
- (B) Time reversal test.
- (C) Unit test.
- (D) None.

13. $x \xrightarrow{Lt} 2x^2 + 7$ is :

- (A) 32.
- (B) 39.
- (C) 8.
- (D) None of the above.

Turn over

14. $x \xrightarrow{\text{Lt}} 1 \frac{4x^4 + 3x^3 - 1}{x^2 + 1}$ is :

(A) $\frac{4}{5}$.

(B) $\frac{4}{3}$.

(C) $\frac{4}{7}$.

(D) $\frac{3}{4}$.

15. Derivative of $\frac{1}{x^2}$ is :

(A) $-x^2$.

(B) $-2x^{-3}$.

(C) $2x^{-3}$.

(D) None of these.

16. A function is said to be maximum at $x - a$ if :

(A) $f(a)$ is negative and $f''(a)$ is zero. (B) $f(a)$ is zero and $f''(a)$ is negative.

(C) $f(a)$ is zero and $f''(a)$ is zero. (D) $f(a)$ is negative and $f''(a)$ is negative.

17. The function $2x^2 - 8x + 10$ is minimum at 'x' is equal to :

(A) 4.

(B) - 8.

(C) $2x$.

(D) 2.

18. Increasing function if and only if its derivatives on (a, b) is :

(A) Negative.

(B) Non-Negative.

(C) Non-positive.

(D) None of the above.

19. Complete count of the heads of people of a country is known as :

(A) Census.

(B) Vital statistics.

(C) Demography.

(D) None of these.

20. In India, the collection of vital statistics started for the first time in :

(A) 720.

(B) 1886.

(C) 1969.

(D) 1946.

FOURTH SEMESTER (CUCBCSS—UG) DEGREE EXAMINATION, APRIL 2022

Economics

ECO4B05—QUANTITATIVE METHODS FOR ECONOMIC ANALYSIS—II

(2014—2018 Admissions)

Time : Three Hours

Maximum : 80 Marks

*Use of calculator is permitted.***Part A***Answer all questions.*

- It is the responsiveness of economic variables to change in other economic variables:
 - Propensity.
 - Elasticity.
 - Economic model.
 - Function.
- Find $\lim_{x \rightarrow 0} \frac{e^x - 1}{x - 3}$:
 - 1.
 - 0.
 - e^x .
 - $e^x - 1$.
- As the amount of change in the variable measured on Y axis with respect to change in the variable measured on the X axis :
 - Function.
 - Slope
 - Intercept.
 - Equation.
- Find the derivative x^6 :
 - $6x^5$.
 - x^6 .
 - $6x^6$.
 - $5x^5$.
- Total revenue is $12x - 3x^2$, find MR :
 - $12 - 6x$.
 - $12x - 3x^2$.
 - $12x - 3x$.
 - None of these.

Turn over

6. Laspeyre's Index number is based on :
- (a) Average of current and base year quantities.
 - (b) Current year quantities.
 - (c) Base year quantities.
 - (d) None of these.
7. The index used to measure changes in total money value is called :
- (a) Price index.
 - (b) Value index.
 - (c) Quantity index.
 - (d) None of these.
8. The time series analysis helps :
- (a) To compare the two or more series.
 - (b) To know the behaviour of business.
 - (c) To make predictions.
 - (d) All the above.
9. Least square method of fitting a trend is :
- (a) Most exact.
 - (b) Least exact.
 - (c) Full of subjectivity.
 - (d) Mathematically unsound.
10. Consumer price index reflects on the price changes experienced by :
- (a) An individual.
 - (b) A particular family.
 - (c) All families of a population.
 - (d) All the above.
11. Fertility rate mainly depends on :
- (a) Total female population.
 - (b) Total population.
 - (c) Female population of child bearing age.
 - (d) Number of newly born babies.
12. Classical probability is measured in terms of :
- (a) A ratio.
 - (b) An absolute value.
 - (c) Absolute value and ratio both.
 - (d) None of these.

(12 × ½ = 6 marks)

Part B (Short Answer Type Questions)

Answer any **ten** questions.

Each one carries 2 marks.

13. Determine the maxima and minima values of $4x^3 + 9x^2 - 12x + 13$.
14. If the Marginal revenue is 25 and the elasticity of demand with respect to price is 2. Find average revenue.
15. Define Price elasticity of demand.
16. Find $\lim_{x \rightarrow 3} \frac{x^3 - 27}{x - 3}$.
17. What do you mean by Optimization ?
18. Define Simple index number.
19. Define Deflating.
20. Explain the concept of Seasonal variations.
21. Define general fertility rate.
22. Explain Conditional probability.
23. A ball is drawn from a bag containing 4 white, 6 black and 5 green balls. Find the probability that a ball drawn is : (i) Black ; and (ii) Not green.
24. Write a note on Convexity and Concavity.

(10 × 2 = 20 marks)

Part C (Short Essay Questions)

Answer any **six** questions.

Each one carries 5 marks.

25. Find the first order partial derivative of $u = \log(x^2 + y^2)$.
26. Briefly explain the marginal concepts of Economics.
27. Explain the methods for construction of Index numbers.
28. Explain the concept of : (i) Sample space ; (ii) Sample point ; and (iii) Equally likely events.

Turn over

29. A bag contains 4 white, 2 black, 3 yellow and 3 red balls. What is the probability of getting a white or a red ball at random in a single draw of one.
30. Explain Crude death rate and Specific death rate.
31. Briefly explain the components of Time series.
32. Construct the index number for 2018 taking 2008 as base by price relative method using Arithmetic mean :

Commodities	A	B	C	D
Price in Rs. (2008)	10	20	30	40
Price in Rs. (2018)	13	17	60	70

(6 × 5 = 30 marks)

Part D (Essay Questions)

*Answer any two questions.
Each one carries 12 marks.*

33. Fit a straight line of the form $y = a + bx$ to the following data :

Year	2012	2013	2013	2015	2016	2017	2018
Values ...	10	18	15	22	20	25	28

34. Calculate the Laspeyer's index, Paasche's index number and Fisher's index number from the following data :

Commodity	Price		Quantity	
	Base year	Current year	Base year	Current year
A	4	7	10	8
B	5	9	8	6
C	6	8	15	12
D	2	2	5	6

35. A firm produces two goods, with output levels q_1 and q_2 and faces the total cost function $TC = 45 + 125q_1 + 84q_2 - 6q_1^2q_2^2 + 0.8q_1^3 + 1.2q_2^3$. Find two relevant marginal cost functions.
36. (i) Explain the properties of Probability.
(ii) Briefly explain Bayes's Theorem.

(2 × 12 = 24 marks)

FOURTH SEMESTER (CBCSS-UG) DEGREE EXAMINATION, APRIL 2022**Economics****ECO4(3)C04—MATHEMATICAL TOOLS FOR ECONOMICS III AND IV**

(2019 Admission onwards)

Time : Two Hours and a Half

Maximum : 80 Marks

Section A*Answer atleast ten questions.**Each question carries 3 marks.**All questions can be attended.**Overall ceiling 30.*

1. Limit of a function.
2. Marginal cost.
3. Returns to scale.
4. Price elasticity of demand.
5. Homogenous function.
6. Marginal productivity.
7. Left and right hand limit.
8. Integrand.
9. Differentiate $20x^{-4} + 90$.
10. Independent variable.
11. Marginal rate of substitution.
12. Integrate $\log x$.
13. Differentiation.
14. Total revenue.
15. Lagrange multipliers.

(10 × 3 = 30 marks)

Turn over

Section B

Answer atleast five questions.

Each question carries 6 marks.

All questions can be attended.

Overall ceiling 30.

16. Find $2x / (x^2 + 1)(x^2 + 2)^2 dx$.
17. Explain the relationship between MC and AC
18. If the demand law is $p = 10/(q + 1)^2$. Find the elasticity of demand in terms of q . If the quantity q is 4 units, find the elasticity of demand.
19. Differentiate between partial and total differentiation.
20. Explain the properties of limit.
21. A production function is given as $x = aL^pK^q$
where x is the quantity of production, L and K are the quantities of the two factors of production.
Find the :
 - a) Marginal productivity with respect to L .
 - b) Marginal productivity with respect to K .
 - c) MRS.
22. State and illustrate relationship between AR and MR.
23. Define integration. Explain integration by substitution and integration by parts.

(5 × 6 = 30 marks)

Section C

Answer any two questions.

Each question carries 10 marks.

24. Explain various marginal concepts in Economics.
25. Explain Lagrange's Multiplier Method.
Find the point where the utility function $U = 48 - (x - 5)^2 - 3(y - 4)^2$, will have the maximum and minimum value subject to the condition $x + 3y - 9 = 0$.
26. Write an essay on the optimisation in economic functions.
27. Explain definite integral. Write down its properties. Evaluate:

$$\int_1^4 (|x - 1| + |x - 2| + |x - 4|) dx.$$

(2 × 10 = 20 marks)

FOURTH SEMESTER (CBCSS—UG) DEGREE EXAMINATION
APRIL 2022

Economics

ECO 4(3) C03—BANKING II

(2019 Admission onwards)

Time : Two Hours and a Half

Maximum : 80 Marks

Section A (Short Answer Questions)

Answer at least ten questions.

Each question carries 3 marks.

All questions can be attended.

Overall Ceiling 30.

1. Rural banking.
2. NABARD.
3. Banker's bank.
4. CRR.
5. Monetary policy.
6. NPA.
7. Basel Committee.
8. MCLR.
9. Open market operations.
10. Mudra Bank.
11. Asset and liability.
12. Development banks.
13. Credit crunch.
14. Kerala Bank.
15. Prime rate.

(10 × 3 = 30 marks)

Turn over

Section B (Short Essay/Paragraph Questions)

Answer at least five questions.

Each question carries 6 marks.

All questions can be attended.

Overall Ceiling 30.

16. What are the reasons behind the rise of Non Performing Assets in India ?
17. Explain the structure and features of Co-operative Banks.
18. What are the advantages of rural banking ?
19. Discuss important functions of Reserve Bank of India.
20. What is the note issue system followed in India ?
21. What is meant by Basel Accords ? What is the difference between Basel II and III ?
22. Differentiate between various rates published by RBI. Mention recent bank rates in India.
23. *IDBI serves as the apex institution for term finance for industry in India.* Evaluate the statement highlighting the objectives and functions of IDBI.

(5 × 6 = 30 marks)

Section C (Long Essay Questions)

Answer any two questions.

Each question carries 10 marks.

24. Discuss the features of banking reforms and regulation with special reference to Narasimham Committee.
25. *NABARD is the apex banking institution to provide finance for agriculture and rural development.* Discuss the statement highlighting its role and functions.
26. Explain major functions of Development Banks.
27. Explain meaning and objectives of monetary policy. What are the important instruments of monetary policy ?

(2 × 10 = 20 marks)

FOURTH SEMESTER (CBCSS-UG) DEGREE EXAMINATION, APRIL 2022

Economics

ECO4(3)C02—CO-OPERATION—II

(2019 Admission onwards)

Time : Two Hours and a Half

Maximum : 80 Marks

Section A

*Answer atleast ten questions.
Each question carries 3 marks.
All questions can be attended.
Overall ceiling 30.*

1. Agricultural co-operative.
2. Collective farming.
3. Warehousing.
4. Consumers co-operative.
5. HRM.
6. Co-operative education.
7. Self-help groups.
8. Financial inclusion.
9. Dairy co-operative.
10. Co-operative housing.
11. Co-operative movement.
12. Kudumbashree.
13. Co-operative marketing.
14. Decentralization.
15. Co-operation.

(10 × 3 = 30 marks)

Turn over

Section B

Answer atleast five questions.

Each question carries 6 marks.

All questions can be attended.

Overall ceiling 30.

16. Examine the role of co-operative movement in Kerala.
17. Explain co-operative farming. Do you think that co-operative farming is better than collective farming ?
18. Evaluate the role of co-operatives in the era of decentralization.
19. What are service co-operatives ? What are the services provided by service co-operatives ?
20. Explain co-operative education and training. Why is co-operative education and training important ?
21. Analyse the major problems faced by co-operatives in India.
22. Examine the underlying principles of co-operation.
23. Prepare a note on urban co-operative credit society. Bring out difference between urban co-operative societies and co-operative banks.

(5 × 6 = 30 marks)

Section C

Answer any two questions.

Each question carries 10 marks.

24. Discuss the importance of co-operative marketing. Identify the advantages and disadvantages of co-operative marketing.
25. What are non-agricultural co-operatives ?
26. Discuss the nature and significance of Human Resources Development in Co-operatives.
27. Evaluate the role and significance of Kudumbashree as the largest women SHG in India.

(2 × 10 = 20 marks)

**FOURTH SEMESTER (CBCSS—UG) DEGREE EXAMINATION
APRIL 2022**

Economics

ECO 4(3) C01—INTRODUCTORY ECONOMICS—II

(2019 Admission onwards)

Time : Two Hours and a Half

Maximum : 80 Marks

Section A (Short Answer Questions)

Answer at least ten questions.

Each question carries 3 marks.

All questions can be attended.

Overall Ceiling 30.

1. Primary functions of money.
2. CRR.
3. Demand for money.
4. Deficit financing.
5. Local finance.
6. Internal and external trade.
7. Population explosion.
8. Disguised unemployment.
9. Fertility rate.
10. Budget.
11. Devaluation.
12. Density of population.
13. Demand pull inflation.
14. Public finance.
15. Malnutrition.

(10 × 3 = 30 marks)

Turn over

Section B (Short Essay/Paragraph Questions)

Answer at least five questions.

Each question carries 6 marks.

All questions can be attended.

Overall Ceiling 30.

16. What do you mean by foreign exchange rate ? Differentiate between fixed exchange rate system and flexible exchange rate system.
17. Describe important poverty alleviation programs in India.
18. What are the important functions of Reserve Bank of India ?
19. *The Finance Commission plays important role in ensuring smooth central state financial relations. Discuss.*
20. Evaluate the trends in public expenditure in India.
21. Explain Fisher's quantity theory of money.
22. What are the major features and functions of NITI Aayog ?
23. Explain meaning and type of inflation.

(5 × 6 = 30 marks)

Section C (Long Essay Questions)

Answer any two questions.

Each question carries 10 marks.

24. Explain meaning and objectives of monetary policy. What are the important instruments of monetary policy ?
25. Critically evaluate the principle of maximum social advantage.
26. Distinguish between balance of trade and balance of payments. Explain the structure of balance of payments.
27. Describe the demographic trends of India in the light of 2011 census.

(2 × 10 = 20 marks)