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(Pages : 2)

Reg. No:.....

Name:

FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE

Second Semester BA Economics Degree Examination, April 2022

BEC2B02 – Micro Economics – II

(2019 Admission onwards)

Time: 2.5 hours

Max. Marks: 80

Section A**Short answer questions: maximum mark in this section is 25.****Student can attend all the questions. Each question carries 2 marks.**

- 1) What is cost function?
- 2) Explain Average Variable Cost.
- 3) What you mean by L-shaped average cost curve?
- 4) Differentiate a firm and an industry.
- 5) What is Lerner index?
- 6) Why a firm in perfect competition is known as price taker?
- 7) What you mean by two part tariff?
- 8) Define bilateral monopoly.
- 9) What is a cartel?
- 10) Draw the market demand curve of monopoly.
- 11) Define social cost of monopoly.
- 12) What is collusion in oligopoly?
- 13) Define marginal revenue product.
- 14) What is price elasticity of demand for an input?
- 15) What you mean by product differentiation?

Section B

Paragraph type questions. Maximum mark in this section is 35.
Student can attend all the questions. Each question carries a maximum of 5 marks.

- 16) Explain the relationship between average cost and marginal cost curves.
- 17) Explain the horizontal demand curve under perfect competition.
- 18) Explain the condition for short run and long run equilibrium in perfect completion.
- 19) Explain three degrees of price discrimination.
- 20) Explain the features of monopolistic competition.
- 21) Discuss the Cournot's model of duopoly.
- 22) Explain the kinked demand curve.
- 23) Explain marginal productivity theory of inputs.

Section C

Essay type questions. Answer any 2 questions.
Each question carries a mark of 10.

- 24) What is Monopoly market? How the monopoly power can be controlled?
- 25) Explain the role of government intervention in perfectly competitive market in the form of Subsidy and Tax. .
- 26) Explain equilibrium in a competitive factor market.
- 27) What is price leadership in oligopoly market? Explain the different types of price leadership.

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FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE

Second Semester BA Economics Degree Examination, April 2022

BEC2C04 – Mathematical Methods for Economics - II

(2019 Admission onwards)

Time: 1.5 hours

Max. Marks: 40

Part A**(Very Short Answer Type Questions. Each question carries 2 Marks)**

1. Distinguish between sequences and series with examples.
2. Find the numbers in GP whose sum is 14 and product is 64.
3. Distinguish between scalar matrix and unit matrix. Give example
4. Illustrate symmetric matrix.
5. If $A = \begin{bmatrix} 3 & 2 & 1 \\ -1 & 0 & 4 \end{bmatrix}$ and $B = \begin{bmatrix} -1 & 2 & 0 \\ 1 & 3 & -2 \end{bmatrix}$ Find $3A-2B$
6. Find $\lim_{x \rightarrow 6} \frac{x^2 - 2x - 24}{x - 6}$
7. Obtain $\frac{d^2R}{dx^2}$ where $R = 12x - 3x^2$

(Ceiling 10 Marks)**Part B****(All questions may be answered Each question carries 5 marks)**

8. Third and seventh term of HP are $\frac{1}{12}$ and $\frac{1}{32}$ respectively. Find the 15th term.
9. $A = \begin{bmatrix} 3 & 4x \\ -1 & 5 \end{bmatrix}$ $B = \begin{bmatrix} 3 & 5 \\ -1 & 3x \end{bmatrix}$ and $A=B$. Find the value of x
10. Explain important properties of determinant.
11. Find the derivative of the following functions
(a) $Y = x + \log x$ (b) $y = 3x^4$ (c) $y = 5x^{-2}$
12. Find the derivative of the following equation using implicit differentiation method.
 $4y^5 - 3y^4 + 3x^3 = 25$

(Ceiling 20 Marks)

Part C (Short Answer Questions)

Answer any one of the following questions

13. A farm produces 550 tons of wheat in the first year. The sum total of production at the end of fifth year is 3000 tons. If the given production sequence is an AP, find the value of annual increase in production. Also find the tenth year's production and sum total up to tenth year.

14. Solve the following equation using matrix method.

$$5x - 2y + 3z = 16$$

$$2x + 3y - 5z = 2$$

$$4x - 5y + 6z = 7$$

(1×10=10 Marks)