

## FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE

First Semester BA Degree Examination, November 2018

## BECO1B01 – Micro Economics I

(2017 Admission onwards)

Max. Time: 3 hours

Max. Marks: 80

**PART - A****Answer all questions. Each question carries ½ mark**

1. When the price of a substitute of commodity X falls , the demand for X:
  - (a) Rises
  - (b) Falls
  - (c) Remains unchanged
  - (d) Any of these
2. At the middle point of a linear demand curve ,elasticity is :
  - (a) Infinity
  - (b) Unity
  - (c) Zero
  - (d) Two
3. In the case of cardinal utility theory ,as income increases marginal utility of money is assumed to be
  - (a) Increases
  - (b) Decreases
  - (c) Constant
  - (d) None of these
4. "Choice reveals preference". This statement was made by
  - (a) J R Hicks
  - (b) P A Samuelson
  - (c) Karl Marx
  - (d) Alfred Marshall
5. Indifference curves are.....to the origin.
  - a) convex
  - b) concave
  - c) linear
  - d) none of the above
6. In demand theory price is ..... variable?
  - a) Independent
  - b) dependent
  - c) exogenous
  - d) other
7. ....economics is devoid of any ethical position or value judgement.
  - a) Positive
  - b) normative
  - c) general
  - d) International
8. The slope of the budget line indicates .....
  - a)  $\frac{px}{py}$
  - b)  $\frac{pk}{pl}$
  - c)  $\frac{mpk}{mpl}$
  - d) output elasticity of factors
9. Which of the following becomes negative in the short run?
  - a) Marginal cost
  - b) Marginal product
  - c) Average product
  - d) Total product
10. Returns to scale is associated with
  - a) Long term
  - b) short term
  - c) Expansion path
  - d) Factor pricing
11. Price effect is negative incase of .....
12. The area within two ridge lines are called.....

(12 x ½ = 6 Marks)



PART - B

Answer any ten questions. Each question carries two marks

13. What is cross elasticity of demand?
14. Distinguish between Micro economics and Macro economics?
15. What is Equi marginal utility?
16. Define the term methodology?
17. What are budget constraints?
18. What is Rationality? How it effects decisions in economics.
19. If  $Q_{dx}=1400000-20000 P_x$  and  $Q_{sx}=40000+20000 P_x$  find the equilibrium price and quantity?
20. "Demand is a function of price and income" examine the statement?
21. Define Isoquant?
22. What are various concepts used in Model building?
23. What is Cobb – Douglass production functions ?
24. Describe Strong ordering and weak ordering ? (10 x 2 = 20 M)

PART - C

Answer any six questions. Each question carries five marks

25. What is Consumer Surplus? Explain Hicksian Version of CS
26. What is the shape of Engel curve in the case of Normal good and Inferior good?
27. Explain the relationship between MP, AP & TP in Short run production function.
28. Distinguish between changes in Demand and changes in Quantity demanded?
29. What is Indifference curve? Explain its properties.
30. Discuss the concept of Returns to scale in economics?
31. Explain elasticity of Demand ? Write any two methods to measure  $E_d$ .
32. "Choice reveals preference". Explain.
33. "Critically examine the concept law of demand? What are the functions of prices.

(6x 5 = 30)

PART - D

Answer any two questions..Each question carries twelve marks

34. Analyse the decomposition of price effect into income effect and substitution effect case of normal and inferior goods?
35. The law of diminishing returns and increasing returns are only two phases of t universal law of the law of variable proportions. Do you agree?
36. Compare and contrast the Consumer equilibrium using Cardinal and Odinal util approach
37. Explain least cost combination of factors in the process of production . (2 x 12 = 24)



## FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE

First Semester BA Degree Examination, November 2018

ECO1C04 – Mathematical Methods for Economics – I

(2017 Admission onwards)

Max. Time: 1 ½ hours

Max. Marks: 40

## PART – A

Answer *all* questions. Each question carries 1/2 mark

- The equation  $-14x + 2 = 10 - 6x$  will be satisfied for  $x$  equals  
a) 1      b) 2      c) -1      d) -2
- The nature of the roots of the equation  $5x^2 - 4x + 2 = 0$  is  
a) Real and equal      b) rational and unequal  
c) real and unequal      d) imaginary and unequal
- Division of Rs 2,250 into 3 parts in the ratio of 3:5:7 is  
a) (450,750,1050)      b) (450,750,600)  
c) (1050,750,450)      d) None of the above
- $7\frac{3}{5}$  equals  
a)  $\frac{36}{5}$       b)  $\frac{39}{5}$       c)  $\frac{33}{5}$       d)  $\frac{38}{5}$
- $(A \cup B)^c = \dots\dots\dots$   
a)  $A^c \cup B^c$       b)  $A^c \cap B^c$       c) Both a and b      d) None of the above
- $y = f(x) = ax + b$ , if  $b=0$ , then the graph  
a) straight line      b) horizontal      c) vertical      d) passes through the origin  
(6 x ½ = 3 Marks)

## PART – B

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

- Simplify  $\sqrt{x^{12}y^7z^2} \div x^3y^2z$
- Solve  $3\frac{4}{5} + 7\frac{2}{3} - 4\frac{1}{2}$
- Distinguish between difference of set and complement of set. Draw Venn diagram for difference of a set
- Two numbers are in the ratio 3:4; if 6 be added to each terms of the ratio, then the new ratio will be 4:5. Find the numbers
- Solve the following equation  
 $\frac{x+8}{4} + \frac{x+20}{18} = 16$
- Distinguish between proper subset and improper subset. Give suitable example
- In a school there are 200 students, 60 like to play cricket, 75 like to play football and 40 like to play both games. Find how many students like to play neither cricket nor football.

(5 x 2 = 10 Marks)

### PART - C

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

14. Write a short note on the following
- Cartesian product. Give suitable example
  - Types of relation and function
15. Solve the following quadratic equations
- $4x^2 + 4x - 3 = 0$
  - $2x^2 + 2x - 24 = 0$
16. Solve the following simultaneous linear equations
- $$2x + 2y = 8$$
- $$4x + 3y = 19$$
17. By using venin diagram prove that  $A \cap (B \cup C) = (A \cap B) \cup (A \cap C)$

(3x 5 = 15 Marks)

### PART - D

Answer *any one* question. Each question carries *twelve* marks

18. Solve
- $$2x + 3y - z = 9$$
- $$x + z = 6$$
- $$3x - y - z = -1$$
19.  $A = \{1, 2, 3\}$ ,  $B = \{1, 2, 3, 4, 5\}$ ,  $C = \{6, 7\}$  Verify the following
- $A \times (B \cup C) = (A \times B) \cup (A \times C)$
  - Demorgan's law of set for set A and B
  - Distributive law of set

(1 x 12 = 12 Marks)