



Reg. No.:

Name:

University of Kerala

Second Semester FYUGP Degree Examination, May 2026

Discipline Specific Core Course

ECONOMICS

UK2DSCECO100 - Tools for Economic Analysis

Academic Level: 100-199

2024 Admission onwards

Time: 2 Hours(120 Mins)

Max. Marks: 56

Part A. 6 Marks:Time 5 Minutes.(Cognitive Level :Remember(RE)/Understand(UN)) Objective Type.1 mark each,
Answer all questions

Qn No.	Question	CL	CO
1	A relation where every distinct element in the domain maps to a unique, distinct element in the codomain is classified as a: Options : A)One-to-many relation B)One-to-one relation C)Many-to-one relation D)Monotone function	RE	2
2	Which of the following is a positional average? Options : A)Arithmetic Mean B)Median C)Mode D)Harmonic Mean	RE	1
3	Consumption function shows relationship between: Options : A)a) Income and consumption B)b) Supply and demand C)c) Revenue and cost D)d) Output and labour	UN	1
4	The Total Fixed Cost curve is generally Options : A)Upward sloping B)Downward sloping C)Horizontal straight line D)U Shaped	UN	3
5	The Cartesian product $A \times B$ represents: A) Union B) Ordered pairs C) Intersection D) Difference	UN	1

Qn No.	Question	CL	CO
	Options : A) Union B) Ordered pairs C) Intersection D) Difference		
6	Which of the following statement is true with respect to the following function $y = 4x^2 - 5x - 2$ Options : A) A single variate function B) A bivariate function C) A multivariate function D) None of the above	UN	3

Part B. 10 Marks. Time: 20 Minutes (Cognitive Level: Understand(UN)/Apply(AP)) Two-three sentences. 2 marks each. Answer all questions

Qn No.	Question	CL	CO
7	Differentiate between dependent variable and independent variable with a suitable example.	UN	1
8	Differentiate between primary data and secondary data with examples.	UN	2
9	Sketch the Supply Function $QS = 2 + 3P$	AP	2
10	Let A = {1, 2, 3, 4} and B = {3, 4, 5, 6}, Find A ∪ B and A ∩ B.	AP	2
11	Discuss the merits and demerits of arithmetic mean	AP	3

Part C. 16 Marks. Time: 35 Minutes. (Cognitive Level : Apply(AP)/Analyse(AN)) Short Answer. 4 marks each, Answer all 4 questions, choosing among options * within each question

Qn No.	Question	CL	CO
12	A) Compute the Arithmetic Mean from the following discrete frequency data representing the daily wages of workers: Wages (₹): (100, 200, 300) No. of Workers (f): (3, 5, 2) OR B) From the following data, prepare an inclusive frequency table and convert it into exclusive form: Marks: 0-9(2), 10-19(5), 20-29(8), 30-39(4)	AP	4, 4
13	A)	AP	3, 4

Qn No.	Question	CL	CO
	Define the following with examples from economics: (i) Exponential function (ii) Logarithmic function (iii) Polynomial function OR B) Define a Function. Choose any two from the following list to define with a simple mathematical or numeric example, • Identity Function • Constant Function • Logarithmic Function		
14	A) Compare rational numbers and irrational numbers with examples OR B) Briefly analyse the concepts of Constant, Dependant and independent variable with the help of a demand function and create a demand curve.	AN	1, 1
15	A) Calculate the slope of the line joining the points (2,3) and (6,11) OR B) The consumption function is given by: $C=100+0.8Y$, where C is consumption and Y is income. (a) Find consumption when income is ₹2000. (b) Find the marginal propensity to consume (MPC).	AN	3, 3

Part D. 24 Marks. Time: 60 Minutes. (Cognitive Level :Analyse(AN)/Evaluate(EV)/Create(CR)) Long Answer 6 Marks each. Answer all 4 questions choosing among options * within each question

Qn No.	Question	CL	CO
16	A) Examine the difference between linear, quadratic and cubic equations in representing economic relationships. How does the degree of the equation affect the nature of solutions and interpretations? OR B)	AN	1, 1

Qn No.	Question	CL	CO
	Examine the role of constants, variables, parameters, exponents, and polynomials in mathematical and economic analysis		
17	A) Construct market demand schedule and plot the demand curve given by $D = 500 - 2p$ OR B) A demand function is given as $Q_d = 50 - 2P$. Draw the demand curve, identify the intercepts and slope, and examine the effect of price changes on quantity demanded.	EV	3, 3
18	A) Evaluate the different types of relations with suitable examples. OR B) Economic functions simplify complex relationships. Evaluate	EV	1, 1
19	A) Calculate mean deviation and standard deviation for the following data: 10,12,14,16,18 OR B) A sports teacher recorded the number of goals scored by players in a tournament: 2, 4, 6, 4, 8, 10, 4, 6 (1) Create a frequency table. (2) Calculate the arithmetic mean. (3) Find the mode. And (4) evaluate which measure best represents the performance of players.	CR	5, 5