Name:

Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES **End Semester Examination, December 2021**

Course: Business Economics

Semester: I

Program: B COM (Hons.)

Course code: ECON1001

Time: 03 Hours

Max. Marks: 100

SECTION A

1. Each Question will	carry 2 Marks
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<i></i>	instruction.	Select the	correct answer(s)

		CO
Q1	The theory of consumer choice provides the foundation for understanding a. the structure of production. b. the profitability of a firm. c. product demand. d. product supply.	CO1
Q2	As a general rule, the theory of consumer choice provides insight into the behavior of a. individuals who make unconstrained choices. b. individuals who make constrained choices. c. individuals who are unaware of how to maximize their well-being. d. irrational consumers.	CO1
Q3	The theory of consumer choice examines	CO2
Q4	A budget constraint a. represents the bundles of consumption that makes a consumer equally happy. b. shows the consumption bundles that a consumer can afford. c. reflects the desire by consumers to increase their income. d. shows the prices that a consumer chooses to pay for products he consumes.	CO2
Q5	Assume that a college student spends her income on Coke and Snickers. During finals week, the price of a Snickers candy bar is \$0.50, and a can of Coke is \$0.75. If she has \$20 of income, she could possibly choose to consume a. 24 Snickers bars and 12 cans of Coke. b. 22 Snickers bars and 14 cans of Coke. c. 15 Snickers bars and 18 cans of Coke. d. 10 Snickers bars and 20 cans of Coke.	CO1

Q6	A consumer that doesn't spend all of her income							
	a. would be at a point inside her budget constraint.							
	b. would not be consuming positive quantities of all goods.							
	c. must be consuming at a point where her budget constraint touches one of	CO2						
	the axes.							
	d. would be at a point outside of her budget constraint.							
Q7	When income increases, a budget constraint							
	a. will shift inward, parallel to its initial position.							
	b. will shift outward, parallel to its initial position.	CO1						
	c. will pivot around the "Y" axis.							
	d. will pivot around the "X" axis.							
Q8	Which of the following statements is true?							
	a. Consumers must purchase some of each good available.							
	b. Consumers cannot consume at points outside their budget constraint.							
	c. Optimizing consumers spend half of their income on each of two goods.							
	d. Consumers cannot consume at points inside their budget constraint.							
Q9	The slope of the budget constraint is NOT							
	a. the rate at which a consumer can trade one good for another.							
	b. the relative price of two goods.	CO1						
	c. constant.							
	d. equal to the slope of the highest indifference curve.							
Q10	Consumer preferences are typically represented by							
	a. budget constraints.							
	b. cost curves.	CO2						
	c. supply curves.							
	d. indifference curves.							
	SECTION B							
1. Each	a question will carry 5 marks							
2. Instr	ruction: Write short / brief notes							
Q1.	Explain the difference between the short-run and the long-run							
Q2.	Explain the law of diminishing returns							
Q3.	Draw the graph of following demand function							
- ·	$Q_d = 10 - 2P \text{ where } 0 \le P \ge 5$	CO3						
Q4.	A firm produces output according to the production function							
	Q = F(K, L) = 2K + 4L	CO4						
	a. How much output is produced when $K = 2$ and $L = 3$?							
	b. If the wage rate is \$30 per hour and the rental rate on capital is \$10 per hour, what is the cost-minimizing input mix for producing 16 units of output?							
	SECTION-C	1						
1. Each	Question carries 10 Marks.							
	uction: Write long answer							

Q 1.	Draw the graph of following information and explain movement and shift along the curve										
							come				
	Price 10 9 8 7 6			Rs. 20,00	00	Rs.	30,000		Rs. 40,	000	
				2			5		8		
				6		9			12	CO1	
				10		13			16		
				14			17		20		
				18			21		24		
	5		22		25			28			
Q2	Calculate price elasticity from the following										
	Price (Rs.)	8	7	6	5	4	3	2	1	0	CO3
	Quantity (1b)	0	1000	2000	3000	4000	5000	6000	7000	8000	
Q3	A firm can manufacture a product according to the production function $Q = F(K,L) = K^{3/4}L^{1/4}$ Calculate the average product of labor, APL, when the level of capital is fixed at 16 units and the firm uses 16 units of labor. How does the average product of labor change when the firm uses 81 units of labor?							CO4			
1. Eacl	h Question carries 1:	5 Mai	rks.		SEC.	HON-C					
2. Instr	ruction: Write long a	answe	er								
Q1	An economist estimated that the cost function of a single-product firm is										
	$C(Q) = 50 + 25Q + 30Q^2 + 5Q^3$										
	Based on this information, determine:										
	a. The fixed cost of producing 10 units of output.										
	b. The variable cost of producing 10 units of output.							CO3			
	c. The total		-	_		-					
	d. The avera	_		-	_		-				
	e. The avera	_		-	_		-				
	f. The average total cost of producing 10 units of output. The marginal cost when $Q = 10$.										
Q2	You are the manager of a monopoly, and your demand and cost functions are given by										
		Ü				C(Q) = 1			C		
	a. What price-quantity combination maximizes your firm's profits?										
	b. Calculate the maximum profits.c. Is demand elastic, inelastic, or unit elastic at the profit-maximizing price—quantity combination?							CO4			
							ntity	201			
	d. What pric		antity co	ombinatio	on maxin	nizes reve	nue?				
	e. Calculate the maximum revenues										