8449

Your Roll No.

B.Tech. (ME/CE) / 1

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Paper EME/ECE-104: ENGINEERING ECONOMICS AND ACCOUNTANCY

Time: 3 hours

Maximum Marks: 70

(Write your Roll No. on the top immediately on receipt of this question paper.)

Attempt any three questions from Group A and any two questions from Group B.

All questions carry equal marks.

Assume missing data, if any.

GROUP A

- 1. (a) What is meant by demand? What are the determinants of consumers demand?
- (b) Define cross-elasticity of demand and bring out the factors upon which it depends. 5
 - (c) Find the price elasticity of demand for the demand function $P = \frac{e^x}{x}$.
- (a) Explain the law of diminishing utility. Illustrate your answer with appropriate diagrams. Also discuss the assumptions and limitations of this law.

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- (b) Define price elasticity of demand and show the relationship between Average Revenue (AR), Marginal Revenue (MR) and Price Elasticity (e_p) .
- (a) In a perfectly competitive market in the long run, price will be equal to long run average cost.
 Explain.
 - (b) The demand function faced by a firm is P=500-0.2x and its cost function is TC=2.5x+10,000 (P=price, x=output and TC=Total Cost). Find the output at which the profit of the firm will be maximum, and also find the price that it will charge.
- 4. (a) Define indifference curve and discuss its various characteristics. Also bring out difference between normal commodity and Giffen commodity.
 - (b) The demand for a product in last five years is given below. Forecast the demand for the product in the 10th year using line of regression.

Demand
1495
1535
1575
1620
1645

GROUP B

5. (a) What is Cost Accounting? What are its objectives? How do Cost Accounting records help

		in the planning and controlling operations business enterprise?	of a 10
	(b)	Who are the users of accounting information?	4
6.	(a)	Explain briefly the different elements of cost.	7
	(b)	Distinguish between Unit Costing and Job Cos and indicate the types of industries where exwould be applicable.	_
7.	Wri	te short notes on:	
	(a)	Direct Cost and Indirect Cost	31/2
	(b)	Break-even Volume	31/2
	(c)	Economic Order Quantity	31/2
	(d)	Opportunity Cost.	31/2