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Rol	l No. (of candidate
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		B.Tech. 5th Semester End-Term Examination
		All
		ENGINEERING ECONOMICS
		(New Regulation & New Syllabus)
Ful	l Mar	ks - 70 Time - Three hours
Т		The figures in the margin indicate full marks for the questions.
		Answer question No. 1 and any four from the rest.
		GROUP A
1.	Fill	in the blanks with appropriate words given in the brackets: $(10 \times I = 10)$
	(i)	'Principles of Economics' was written by ——————————(Robbins /Marshall Adam Smith)
	(ii)	Robbin's definition is known as ———————————————————————————————————
	(iii)	Theory of business cycle falls within the domain of (micro economics / macroeconomics / public finance).
	(iv)	Bombay Stock Exchange was formed in the year————————————————————————————————————
	(v)	For essential goods income elasticity of demand is (greater than one / less than one / equal to one)
	(vi)	Cross elasticity of demand for complement goods is ——————————————————————————————————
	(vii)	Price discrimination is a feature of (monopoly market / perfect competition / oligopoly market)
	(viii)Income tax is a kind of———— (progressive tax /regressive tax /proportional tax)
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Total No. of printed pages = 3

GROUP B

Answer any four questions.

2. Write any three of the following :

 $(5 \times 3 = 15)$

- (a) Show how the Phillips Curve traces the relation between inflation and unemployment.
- (b) Define marginal utility and derive utility function.
- (c) Show the relations between AR, MR and elasticity of demand.
- (d) Prove that an indifference curve is downward sloping and convex to the origin.
- (e) Write the concept of G.N.P. at market price, N. N. P. at market price and N. D. P. at market price.
- (a) From the following data calculate total cost, average variable cost, average fixed cost and marginal cost.
 (3)

Total output (units): 0 15 25 35 45 TFC (RS): 400 400 400 400 400 TVC (RS): 0 200 250 300 500

(b) The sale record of an industry reveals the following. Estimate sales for the next three years.
(5)

> Year: 1988 1990 1992 1994 1996 1998 Sale in lakh of Rs. 30 40 45 50 48 57

(c) Calculate weighted average of relative index from the following data. (3)

Commodity:	Sugar	Potato	Dal	Rice
Weight:	5	. 4	2	3
Base year price (in kg.)	15	20	45	25
Current year price:	25	30	65	45

(d) If (q+10) (p+5) =256 and q - p+5 =0 are the demand and supply functions of a commodity then calculate price and quantity of the commodity. (4)

- (a) Define perfect competition. Explain how price and output are determined under perfect competition. (3 + 7=10)
 - (b) The supply and demand of a commodity are given as S=200+2P and D=300 - 3P. Calculate the equilibrium price and quantity of the commodity. When the specific subsidy of Rs. 3 per unit is offered then calculate the new equilibrium value.
- (a) What is monopoly market? Show with the help of a diagram how price and output are determined under monopoly market. (3 +7= 10)
 - (b) The demand and cost functions of a monopoly firm are given as Q= 20-2p and C=5Q +0.5Q. Calculate the level of output and price of the firm. (5)
- 6. (a) Discuss the various functions of the Central Bank of India. (7)
 - (b) Explain the various monetary measures of the Central Bank to control inflation in the economy. (8)
- 7. (a) Define budget. Explain the various components of budget. (2+6=8)
 - (b) Explain the Fisher's quantity theory of money. Given, M= Rs.2000, M' = Rs. 1000, V= 4, V'=3 and T = 5000 units of goods. Find price (P) and value of money (1/P) by using Fisher's equation of exchange. (4+3=7)
- (a) Define environmental economics. Discuss the scope of environmental economics. (2+5=7)
 - (b) What do you mean by market failure? Briefly discuss the various causes of market failure. (2 +6 = 8)