Fourth Semester Examination – 2011 ENGINEERING ECONOMICS AND COSTING

Full Marks - 70

Time: 3 Hours

Answer Question No. 1 which is compulsory and any five from the rest.

The figures in the right-hand margin indicate marks.

Answer the following questions in brief:

2×10

- (a) Explain the features of a planned economy ?
- (b) What are the major problems in an economy ?
- (c) Explain the reason why people buy less when price of inferior goods falls.
- (d) What do you mean by internal economics ? >
- (e) In a perfect competition, can a seller change any price he likes? Justify your answer. POWER OF KNOWLEDGE
- (f) Why is RBI called controller of credit in India ?
- (g) What is a money market ?
- (h) What is a cost sheet ? What are its utilities ?
- (i) What do you mean by agency services of a commercial banks ?
- (j) What is meant by overheads? Classify overheads.
- Suppose a firm is operating under a perfectly competitive conditions in the market in the short run. It has the following revenue and cost condition:

$$TC = 2 + 4Q + Q^2$$

	Machine A	Machine B
Initial cost	Rs.4,00,000	Rs.8,00,000
Useful life, in years	5	5
Salvage value at the end of machine life	Rs.2,00,000	Rs.5,50,000
Annual maintenance cost	Rs. 40,000	0

At 12% interest rate, which machine should be selected? (Use future worth method of comparison).

i = 12%

n	F/P	P/F	F/A	A/F	P/A	A/P	A/G
5	1.762	0.5674	6.3530	0.1574	3.6048	0.2774	1.7746

- 4. Govt. of Orissa is contemplating to construct a dam over river Mahanadi. List out the social costs and benefits out of this project. How would you evaluate such a proposal?
- 5. Define a Central Bank. Describe the main functions of a Central Bank. 10
 - The following costs and sales of a manufacturing company for the first half and second half of 2005-06 are given:

	First half	Second half	
	Rs.	Rs.	
Sales	24,00,000	30,00,000	
Total costs	21,80,000	26,00,000	

You are asked to determine :

- (i) Contribution / Sales ratio of the firm
- (ii) Annual fixed costs
- (iii) Break-even point
- (iv) Margin of safety as percentage of sales.

/. (a)	Explain the concept of elasticity of demand.	
/		

(b) What are the factors governing price-elasticity of demand?
 8z. Explain the concept of production and the law of variable proportions.

POWER OF KNOWLEDGE