

MORNING
10 MAR 2021

Total No. of Questions: 09]

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Uni. Roll No.

Program: B.Tech.

Semester (1/2)

Name of Subject: Principles Of Engineering Economics and Management

Subject Code: HSMC-103

Paper ID: 15928

Time Allowed: 03 Hours

Max. Marks: 60

NOTE:

- 1) Parts A and B are compulsory
- 2) Part-C has Two Questions Q8 and Q9. Both are compulsory, but with internal choice
- 3) Any missing data may be assumed appropriately

Part – A

[Marks: 02 each]

Q1.

- a) Define (i) Economics (ii) Cost
- b) Explain Giffen's Paradox.
- c) Define (i) Price (ii) Marginal Cost .
- d) $TC = \text{-----} + \text{-----}$, $S-V = \text{-----} + \text{-----}$
- e) Consumer's Surplus = ?
- f) Da f (-----).

Part – B

[Marks: 04 each]

- Q2. Draw the diagrams of Law of variable proportions and explain different stages of the law.
- Q3. Calculate profits and sales when cost of production is Rs 3,40,000 selling and distribution overheads are 30% of cost of production and profits are 20% of cost of sales .
- Q4. "Marginal product increases or decreases at a higher rate than average product." Comment
- Q5. Calculate value of raw material consumed form the following data : opening stock of raw materials=Rs 45,000 purchases=Rs10,05,000 closing stock of raw materials =Rs35,000 , carriage inwards=Rs10,000, purchases returns =Rs 50,000 carriage inwards=Rs15,000.
- Q6. Calculate payback period when
Investment=Rs 2,00,000 and annual returns = Rs 80,000
- Q7. "Management is getting things done through others." Comment and Explain any four principles of management .

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Part – C

[Marks: 12 each]

Q8. Draw the diagrams of degrees of elasticity of demand .
Or
Explain diseconomies of scale of production .

Q9. Draw the graph and calculate Break Even Point when fixed cost =Rs 2,50,000, selling price=Rs 80/unit and variable cost =Rs55/unit .Verify the answer numerically also.
Or

Calculate Profit and Sales from the following data:

Opening balance of Raw Materials = Rs 1,70,000

Purchases of Raw Materials = Rs 400,000

Closing Stock of Raw Materials = Rs 1,20,000

Carriage Inwards = Rs 20,000

Purchases returns = Rs 30,000

Direct Wages are 75 % of raw materials consumed

Direct Expenses are 10% of direct wages

Factory overheads are 40% of factory cost ,

Office and administration overheads are 45% of works cost ,

Selling and distribution overheads are 25% of cost of production

Opening stock of finished goods = Rs 50,000

Closing Stock of finished goods = Rs 40,000

and profits are 20 % on sales

(2)