

S.Y. B. Tech - 2017 Course

5th Sem - II

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Paper Code – V 229-136 (BE-F&ES)

DECEMBER 2019/ENDSEM - Backlog Exam

S. Y. B. TECH. (E&TC) (SEMESTER - II)

COURSE NAME: Economics

COURSE CODE: ETUA22176 (PATTERN 2017)

Time: [2 Hours]

[Max. Marks: 50]

(*) Instructions to candidates:

- 1) Answer Q.1, Q.2, Q.3, Q.4, Q.5 OR Q.6, Q.7 OR Q.8
- 2) Figures to the right indicate full marks.
- 3) Use of scientific calculator is allowed.
- 4) Use suitable data wherever required.

Q.1) a) Write short note on EMI.

[6Marks]

OR

b) Describe the term Engineering Economics and mention decision process with suitable example.

[6 Marks]

Q.2) a) Machine X would cost Rs. 25,000 and would have a useful life of 10 years with zero salvage value. The expected annual cash inflow of the machine is Rs.10,000. Compute payback period of machine X and conclude whether or not the machine would be purchased if the maximum desired payback period is 3 years.

[6 Marks]

OR

b) State the conditions of present worth comparison.

[6 Marks]

Q.3) a) Using annual worth method, Find which alternative is better?

[6 Marks]

A - Initial purchase cost Rs. 200000,
Annual operating cost Rs.10000, Expected Salvage value is Rs. 75000, Useful life is 5 years.

B - Initial purchase cost Rs. 400000,
Annual operating cost Rs. 35000, Expected Salvage value is 150000, Useful life is 5 years. Rate of interest for both 10 %.

OR

- b) Write short note on sinking fund with suitable example. [6 Marks]

- Q.4) a) Explain the Internal Rate of Return (IRR). [4 Marks]

OR

- b) Cost of machinery: Rs. 30000. Scrap Value of machine: Rs. 3000. Useful Life of Asset: 20 Years. Depreciation is 10% p.a. Calculate Depreciation as per reducing balance method for first 2 years. [4 Marks]

- Q.5) a) From the following figures relating to the manufacture of a Electronic Product during the month of July 2000, Find out Cost per unit and Profit per unit [6 Marks]

Raw materials consumed Rs. 50,000/- , Direct wages charges Rs. 30,000/-, Labour hours worked 10,500 units , Labour hour rate Rs. 2/-, Office overhead Rs. 20,000/- , Selling overhead Rs. 1 /-. Units produced 20,000, Units sold 18,000 at Rs 10 per unit.

- b) Describe the term selling price and Mention the example to determine selling price. [4 Marks]

- c) Explain the term Overheads. [4 Marks]

OR

- Q.6) a) Explain the elements of cost with suitable examples. [6 Marks]

- b) Describe in short Marginal Cost. [4 Marks]

- c) State the definition of 'Cost' and 'Costing'. Describe the importance of costing. [4 Marks]

- Q.7) a) What are the objectives of preparing financial statements? [6 Marks]

- b) Explain the terms fixed cost and variable cost with suitable examples [4 Marks]

- c) If a company has sales of Rs. 1000/month , Cost of goods sold(COGS)of Rs. 400/month, pays Rs. 100/month in salary, and has no other fixed costs, what is that firm's three months cash flow statement? [4 Marks]

OR

- Q.8) a) Describe a sample balance sheet with the financial terms. [6 Marks]

- b) What is the cash flow statement and mention its limitations. [4 Marks]

- c) Explain difference between assets and liabilities [4 Marks]