Librarian Learning Resource Cent Acharya Institutes

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Fifth Semester B.E. Degree Examination, July/August 2022 Management and Engineering Economics

Time: 3 hrs.

Max. Marks: 80

Note: 1. Answer any FIVE full questions, choosing ONE full question from each module. 2. Use of "Compounding Interest Factor" tables are permitted.

Module-1

- Explain briefly the roles of management. Classify in detail about functions of management. 1 (08 Marks)
 - Identify and explain types of planning. Compare the different types of plans.

(08 Marks)

- 2 Elaborate in detail about the steps in planning. Lost and explain characteristics of organization. (08 Marks)
 - Explain the various steps in decision making process with a block diagram. (08 Marks)

Module-2

3 Explain the concept of departmentation. Justify the centralization and decentralization.

(08 Marks)

b. Classify and explain in detail about committee. Explain briefly the meaning and nature of communication. (08 Marks)

Explain in detail about various styles of leadership.

(08 Marks)

Explain the Maslow's hierarchy of needs of theory.

(08 Marks)

Module-3

Define the Law of Return. Explain three phases of Law of Return.

(08 Marks)

- Explain in detail (i) Demand (ii) Supply (iii) Store (iv) Price elasticity.

(08 Marks)

List the difference between Micro and Macro Economics.

(08 Marks)

Find the effective rate of interest. If nominal rate of interest is 6% compounded (i) Biannually (ii) Quarterly (iii) Monthly (iv) Daily. (08 Marks)

Module-4

- A 45 year old person is planning for his retired life. He plans to divert Rs. 50,000/- from his bonus account as investment every year for next. The bank gives 8% interest rate biannually. Find maturity value of his account when he is 60 year old.
 - b. Following alternatives can perform the same function at nominal rate of interest of 10%. Rank the alternatives as per Annual Equivalent worth comparison.

Sl.No.	Alternatives	First Cost	Life	Salvage value	Annual operating cost
4		(Rs.)	(Yr)	(Rs.)	(Rs.)
1	A	8,000	6	1000	500
2	В	3,000	3	900	600
3	C	2,000	3	700	800

(08 Marks)

OR

- 8 a. A company needs a truck to bring its employees to work and take them from home. It has two alternatives.
 - (i) To rent a vehicle for payment of Rs. 4,00,000/- per year for neat 5 year.
 - (ii) To buy second hand vehicle for Rs. 2,00,000/- with operation cost of Rs. 50,000/- per year. Salvage value of vehicle after 5 years would be about Rs. 75,000/-.

Select the present worth comparison at rate of interest of 14% compounded annually.

(08 Marks)

b. Compare the following investment proposal details given below. Rank them based on Internal rate of return.

Sl.No.	Investment Proposal	Initial Investment (Rs.)	Annual Income (Rs.)	Life (Yrs)
1	Proposal 1	4,00,000/-	1,00,000/-	10
2	Proposal 2	5,50,000/-	1,40,000/-	10
3	Proposal 3	6,25,000/-	1,60,000/-	10

(08 Marks)

Module-5

9 a. Explain the following:

(i) Factory cost (ii) Fixed overhead

(iii) Administrative overheads

(iv) Direct Material cost.

(08 Marks)

- b. A firm engaging in batch producers of 200 units having following information.
 - (i) Direct material cost = Rs. 100/-
 - (ii) Direct Labour cost = Rs.50/-
 - (iii) Factory on cost = 40% of direct mass cost and direct labour cost
 - (iv) Overhead charges = 40% of factory cost
 - (v) Profit = 15% of the gross cost.

Determine selling price of each unit.

(08 Marks)

OR

10 a. Explain briefly various of types of computing deprecation.

(08 Marks)

A device is purchases for Rs. 1000/- and has no salvage value. It is expected to serve for 5 years. Calculate the book value by sum of years digit method and double declining balance method.
(08 Marks)

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