

Sixth Semester B.E./B.Tech. Degree Examination, Dec.2024/Jan.2025
Construction Management and Entrepreneurship

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

- 1 a. Explain the Management Process or Functions of Management. (10 Marks)
 b. Draw a network from the following activities and find critical path and duration of project.

Activity	1-2	1-4	1-3	2-5	3-4 (Dummy)	3-6	4-6	5-6	5-7	5-8	6-7	7-9	8-9
Duration (Days)	9	4	7	7	0	5	8	8	9	10	6	10	2

(05 Marks)

- c. Define Project Management and explain briefly.

(05 Marks)

OR

- 2 a. Explain in detail on Construction Project Formulation. (08 Marks)
 b. Define Project Organization and mention the advantages of Good Organization. (05 Marks)
 c. Draw the arrow network for a project based on the following data :
 i) A & B can be performed concurrently and staff – off the project.
 ii) A must proceed C & D.
 iii) G must follow C
 iv) M is dependent on both D & G.
 v) Neither E nor F can be started before B is completed, but E & F can be performed concurrently.
 vi) D must proceed H.
 vii) J is dependent on both E & F.
 viii) K can begin only after J, M & H are completed.
 ix) L is the last operation which follows K. (07 Marks)

Module-2

- 3 a. Briefly explain Labour Production rate of Productivity. (05 Marks)
 b. Explain factors affecting Labour output or Productivity. (10 Marks)
 c. Explain the classification of Construction Equipments based on the function. (05 Marks)

OR

- 4 a. Explain i) Excavator ii) Dozer iii) Compactors iv) Graders and v) Dumpers. (10 Marks)
 b. Define Material Management and its advantages. (05 Marks)
 c. Explain the factors on affecting Inventory Management. (05 Marks)

Module-3

- 5 a. Define Construction Quality and explain processes of Project Quality Management. (10 Marks)
 b. Explain Health and Safety Measures in Construction. (10 Marks)

OR

- 6 a. Difference between Ethics and Morality. (07 Marks)
 b. Define : i) Ethics ii) Morals and iii) Values. (03 Marks)
 c. Explain Whistle Blowing with its types. (10 Marks)

Module-4

- 7 a. Explain Principles of Engineering Economics. (12 Marks)
 b. A person has taken a loan of amount of Rs 1,00,000 from a bank for a period of 5 years. Estimate the amount of money, the person will repay to the bank at the end of 5 years for the following cases :
 i) Considering simple interest rate of 8% per year.
 ii) Considering compound interest rate of 8% per year. (08 Marks)

OR

- 8 a. A person wishes to have a future sum of Rs 1,50,000 for his Son's education after 10 years from now. What is the Single – payment that he should deposit now so that he gets the desired amount after 10 years? The bank gives 13% interest rate compounded annually. (06 Marks)
 b. Mention the assumptions of Breakeven analysis. (04 Marks)
 c. Two alternative for the purchase of a transit mixer having same useful life is given below :

	Alternative 1	Alternative 2
Initial Purchase cost (Rs)	6,00,000	5,00,000
Annual Operating & Maintenance cost (Rs)	40,000	60,000
Expected Salvage value (Rs)	2,50,000	1,50,000
Useful Life (years)	5	5

Using Present worth method, determine which alternative should be selected, if the rate of interest is 10% per annum. (10 Marks)

Module-5

- 9 a. Define Entrepreneur and explain the characteristics of Entrepreneur. (10 Marks)
 b. Explain Micro , Small and Medium Enterprise (MSMEs) and its role in Economic development. (10 Marks)

OR

- 10 a. Define Business plan and mention the objective / importance of Business plan. (06 Marks)
 b. Explain on Financial plan. (09 Marks)
 c. Briefly explain on entrepreneurial entry into International Business. (05 Marks)

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