CBCS SCHEME

USN ⬜⬜⬜⬜⬜⬜⬜⬜⬜⬜

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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