CLASS: B.Tech/B.Arch   SEMESTER : V
BRANCH: B.Arch/Chem/Mech/PIE   SESSION : MO/2023

SUBJECT: CE428 CONSTRUCTION MANAGEMENT
TIME: 02 Hours   FULL MARKS: 25

INSTRUCTIONS:
1. The question paper contains 5 questions each of 5 marks and total 25 marks.
2. Attempt all questions.
3. The missing data, if any, may be assumed suitably.
4. Tables/Data handbook/Graph paper etc., if applicable, will be supplied to the candidates

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Q.1(a)	Discuss civil construction scenario in this country	[2]	1	K2
Q.1(b)	What are the basic elements of project management?	[3]	2	K2
Q.2(a)	With example, define a Public Limited Company. Discuss its merits and demerits.	[2]	2	K2
Q.2(b)	Name some of the tasks involved in the pre-construction phase of a project.	[3]	3	K3
Q.3(a)	Who are the stakeholders in a large-sized construction project?	[2]	2	K2
Q.3(b)	The maintenance cost of a new dam with the expected life of 60 yrs is estimated to be Rs 2 lakh every year for the first 10 years, followed by Rs 10 lakh expenditure in the 20th and 40th years. If i=8% per year, determine the equivalent uniform annual cost for the entire 60-year period?	[3]	3	K4
Q.4(a)	Define deferred annuity and future worth.	[2]	2	K3
Q.4(b)	Which is the better investment option of the two? (i) A bond with 12% rate of return on a 10-yr investment, or (ii) Depositing Rs 7 lakh for the first 3 yrs and earning Rs 6.0 lakh every year from the end of 6th yr to the end of 10th yr.	[3]	3	K4
Q.5(a)	Discuss the break-even analysis in a project planning.	[2]	2	K2
Q.5(b)	A building, with a life span of 20 years, is rented for Rs 3 lakh per annum. After a major repair costing Rs 15 lakh, the building's life increases by another 20 years. Investigate if it is worthy to go for the repairs if i=8% .	[3]	3	K4

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