PRN:		Course Code :	PCM 203

M.Tech (CEM) First Year End Semester Examination Winter 2024

Project Budgeting and Finance 000431

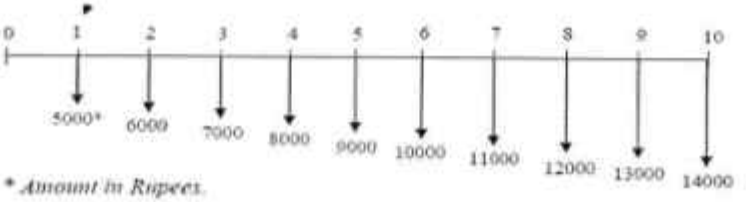
Day and Date: Wed - 4 Dec 2024 Max Marks: **50**

Time : 02:00PM To 04:00PM Duration: **02** hrs

Instructions: All questions are compulsory.

Use of interest table is allowed

			Marks	Bloom's Level	CO
Q.1		**Attempt any two from the following**			
	a)	Calculate repayment for every year for loan of Rs 10,25,000 for 10 years and interest rate is 9 %.	06	L3	CO1
	b)	Calculate present worth and annual worth of following cash flow. i= 10%	06	L3	CO1
	c)	Illustrate cash flow diagram with neat sketch.	06	L3	CO1



** Amount in Rupees.*

A positive gradient of Rs.1000.

Q.2 **Attempt any one from the following**

a) Suggest which machine should purchase from following data. Use EUAC method i= 8 % — 12 — L4 — CO1

	Machine A	**Machine B**
Initial Cost	1,95,600	3,75,900
AOC	31,500	39,700
Extra income tax per year	6,900	4,500
Extra maintenance at end of 4th year	-	2050
Salvage Value	56,000	85,600
Life (years)	10	12

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	b)	Calculate payback period for solar heater having initial cost of 1,05,500. It saves 350 units of electricity per month. The cost of electricity is Rs 9.50 / unit and interest rate is 5 % The rate of electricity increases 10 % per year	12	L4	CO1
Q.3		**Attempt any one the following**			
	a)	The initial cost of a piece of construction equipment is Rs.8,00,000. It has useful life of 12 years. The estimated salvage value of the equipment at the end of useful life is 10% of initial cost Calculate the annual depreciation and book value of the construction equipment using straight-line method and double-declining balance method	13	L4	CO2
	b)	The initial cost of a piece of construction equipment is Rs.3500000. It has useful life of 10 years. The estimated salvage value of the equipment at the end of useful life is Rs.500000. Calculate the annual depreciation and book value of the construction equipment using sum-of-years-digits method and sinking fund method. The interest rate is 8% per year	13	L4	CO2
Q.4		**Attempt the following**			
	a)	Write short note on Working capital management	06	L3	CO3
	b)	Calculate Current Ratio and Quick Ratio from the following information Inventories:- 95,000 Trade receivables:- 68,000 Advance tax 7,000 Cash and cash equivalents 42,000 Trade payables 1,25,000 Short-term borrowings (bank overdraft) 9,500	07	L4	CO3
		OR			
	b)	Explain any four Types of PPP	07	L4	CO4

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