PRN:		Course Code :	CET 2703

Final Year **B. Tech** End Semester Examination Winter 2023

Project Management & Construction Equipment

Day and Date: Saturday, 02/12/2023 Max Marks: **100**

Time : 2.00 to 5.00 PM Duration: **03** hrs

Instructions: All questions are compulsory.

			Marks	Bloom's Level	CO
Q.1		**Attempt the following**			
	a)	Discuss various phases of Project Management.	08	L2	CO1
	b)	Explain Gantt Charts & Milestone charts with its advantages and limitation.	08	L2	CO1
		OR			
	b)	Summarize skills required for project manager.	08	L2	CO1
Q.2		**Attempt the following**			
	a)	Draw the network. Determine Critical Path. Find out Project Duration FT and FF.	08	L2	CO2

Act.	1-2	2-3	2-4	3-6	3-7	4-5	4-6	5-7	6-7
Dur^{n}.	2	4	5	6	5	4	1	3	2

	b)	Explain various rules required to draw the network.	08	L2	CO2
		OR			
	b)	Explain various floats used in CPM.	08	L2	CO2
Q.3		**Attempt any two from the following**			
	a)	Classify various characteristics of probability distribution.	08	L3	CO2
	b)	Explain Network Updating. Show when to update the network and what data is required while updating.	08	L3	CO2
	c)	A Project is expected to take 15 months along critical path having standard deviation of 3 months. Calculate the probability of completing project with following data: i)15 months ii)18 months iii)12 months	08	L3	CO2
Q.4		**Attempt any two from the following**			
	a)	Compare mechanical and manual construction.	08	L3	CO3
	b)	Show working of power shovel with neat sketch.	08	L3	CO3
	c)	Classify various excavating equipment. Explain functions of Bulldozer with neat sketch.	08	L3	CO3
Q.5		**Attempt any Two of the following**			
	a)	Categorized various types of cranes. Explain any two with neat sketches.	09	L4	CO3

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	b)	Identify and Explain various types of tractors used in construction with its sketch.	09	L4	CO3
	c)	Explain clamshell with neat sketch.	09	L4	CO3
Q.6		**Attempt any Two of the following**			
	a)	Explain various explosives used for blasting. Also explain detonators.	09	L4	CO4
	b)	Explain concept of blasting. Summarize precautions taken during blasting.	09	L4	CO4
	c)	Discuss various types of excavating equipment in hard rock. Explain jackhammer with sketch.	09	L4	CO4

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