PRN:		Course Code:	P67PC103

First Year **M. Tech** End Semester Examination Winter 2024

Construction Equipment and Management

000426

Day and Date: Wed 4 ডিসে 2024 Max Marks: 50

Time : 10:30AM To 12:30PM Duration: 02 hrs

Instructions:

1. All questions are compulsory.
2. Assume suitable data wherever necessary and mention it clearly.

		Marks	Bloom's Level	CO
Q.1	**Attempt the following Question.**			
a)	Explain the factors affecting the capacity, function, and efficiency of construction machinery, including power use, fuel consumption, and labor utilization.	10	3	1
Q.2	**Attempt the following Question.**			
a)	Describe the factors affecting the capacity of construction machinery.	10	2	1
	OR			
b)	Explain the factors affecting the Selection of construction equipment and machinery. Include examples of different types of machinery and how their impacts their performance.	10	2	2
Q.3	**Attempt the following Question.**			
a)	Explain the types of equipment used for Concreting.	10	2	3
	OR			
b)	Discuss the various types of earthmoving machinery and their specific applications in construction projects. Include examples such as bulldozers, excavators, and loaders.	10	2	3
Q.4	**Attempt the following Question.**			
a)	Describe the methods used to calculate the depreciation of construction equipment. Compare different methods and discuss their implications on financial planning.	10	1	4
	OR			
b)	Explain work cycle time of various machines, corrective factors affecting to work cycle time.	10	1	4
Q.5	**Attempt the following Question.**			
a)	Compare and contrast planned and unplanned maintenance. What are the key differences, and how do they impact the overall maintenance strategy of a construction project?	10	3	5
	OR			
b)	Write a note on i. Acceptance sampling ii. Benefits and challenges of preventive maintenance	10	3	5

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