0400CET454122404

B

Course Code: CET454

Course Name: CONSTRUCTION METHODS AND EQUIPMENT

Max. Marks: 100 Duration: 3 Hours

PARTA

		PART A	
		Answer all questions, each carries 3 marks.	Marks
1		What are the uses of expansion joints?	(3)
2		List the advantages and disadvantages of slip-form techniques.	(3)
3		Explain cofferdam and list its type.	(3)
4		Explain shoring and its advantages.	(3)
5		Describe the purpose of the excavator and loader.	(3)
6		Describe the role of compaction equipment.	(3)
7		List the methods of concrete pouring.	(3)
8		Mention the role of transit mixers.	(3)
9		Write short note about forklifts.	(3)
10		What are the difference between a single and double acting steam hammer?	(3)
		PART B	
		Answer any one full question from each module, each carries 14 marks.	
		Module I	
11	a)	Explain any two launching techniques used in the bridge construction with	(7)
		advantages.	
	b)	Explain any two methods of tall structure erection.	(7)
		OR	
12	a)	Explain the vacuum dewatering of concrete flooring with a neat diagram.	(7)
	b)	Describe the procedure employed to construct cable stayed bridges.	(7)

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Module II

13	a)	Discuss the details of diaphragm wall and its application	(7)
	b)	Explain the well-point dewatering method with the help of a neat figure.	(7)
		OR	
14	a)	Illustrate piling techniques. Explain any four types with the diagram.	(14)
		Module III	
15	a)	Describe the role and advantages of motor grader in earthwork operations.	(7)
	b)	List and explain different types of scrapers used for earthwork operations.	(7)
		OR	
16	a)	Explain any four equipment used for hauling purpose of earthwork with its	(14)
		advantages.	
		Module IV	
17	a)	What is the difference between the working of a jaw crusher and a gyratory	(7)
		crusher?	
	b)	Describe the requirement of the feeder and screener in aggregate manufacturing.	(7)
		OR	
18	a)	Illustrate the machinery and methods in the concrete manufacturing process.	(14)
		Module V	
19	a)	What are the equipment used for grouting? Explain any two.	(7)
	b)	Explain the role and types of pumps used in construction.	(7)
		OR	
20	a)	Explain the following types of cranes with a neat sketch	(14)
		a) Derrick crane	
		b) Tower crane	
		c) Overhead crane	
		d) Mobile crane	
		خديد	
