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GUJARAT TECHNOLOGICAL UNIVERSITY

GUJARAT TECHNOLOGICAL UNIVERSITY			
BE - SEMESTER-VI (NEW) EXAMINATION – WINTER 2018 Subject Code:2160601 Date:16			5/11/2018
Subject Name:Advanced Construction and Equipments			
Time: 02:30 PM TO 05:00 PM Total Marks: 70			
Instructions:			
		all questions.	
2. 3.		iitable assumptions wherever necessary. to the right indicate full marks.	
5.	Figures	to the right indicate run marks.	MARKS
Q.1	(a)	Enlist the different type of cast in situ pile. Explain Simplex pile in detail	03
	(b)	Discuss the different causes of failure of piles.	04
	(c)	What is a cassion? Explain with sketch well type of cassion.	07
Q.2	(a)	Define the term with sketches 1) Stop- end pipe 2) Guide wall	03
	(b)	Explain vibro flotation a ground water control technique.	04
	(c)	What is coffer dam? Enlist the different type of coffer dam and explain any one with sketch. OR	07
	(c)	Write a short note on "Diaphragm wall construction.	07
Q.3	(a)	Define the term 1) Rim pull 2) Draw bar pull 3) Gradability	03
	(b)	What is owning and operating cost of equipment	04
	(c)	What is formwork? Discuss the formwork of RCC Beam and wall with neat sketches.	07
Q.3	(a)	What is a tall structure?	03
	(b)	Where the slip form work can be used? Explain with neat sketch.	04
.	(c)	Enlist various methods of demolition and explain any two in detail.	07
Q.4	(a) (b)	Differentiate between Precast pile Vs Cast in situ pile.	03
	(b)	Why Bulldozer is an versatile equipment? Explain with reason.	04
	(c)	Enlist the different Excavating equipment. Explain with sketches of Power shovel.	07
0.4		OR	
Q.4	(a)	Define the term 1) Depreciation 2) Scrape value 3) Obsolesce	03
	(b)	Discuss the causes of failure of false work.	04
	(c)	Write a short note on Tunnel Boring Machine.	07
Q.5	(a) (b)	Define: (1) Pile Shoe (2) Down time cost (3) Owing cost	03
	(b) (c)	Write the importance of Air compressor.	04 07
	(c)	Calculate the depreciation for each year by Straight line method for the Back hoe loader having purchase cost of Rs	07
		26,00,000/- and scrap value at the end of useful life of five	
		years equal to 10% of its original purchase price	
		OR OR	



- (b) Draw a neat sketches of different component of Concrete 04
 - Enlist the different type of lifting equipment. Explain with 07 (c) sketches of Tower Crane.

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