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Firstranker's GUJARAT TEGHENGHaGGELCOAL UNIWEREIST anker.com				
BE - SEMESTER- III (New) EXAMINATION - WINTER 2019				
Subject Code: 2130607 Date: 7/12/201				
Subject Name: Building Construction				
Time: 02:30 PM TO 05:00 PM Total Marks:				
	Inst	2.	ons: Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
	Q.1		Define 'Building'. Explain its components. Define "Shallow foundation". Enlist various types of shallow foundation. Enlist the various methods of sub-soil exploration. Explain wash boring with Sketch.	03 04 07
	Q.2		What are the purposes of site Exploration? What do you understand by "Raft Foundation"? What are the causes of failure of foundation? What remedial measures would you adopt?	03 04 07
			OR	
		(c)	What are the characteristics of Black cotton soils? Explain with sketch under- Reamed pile foundation.	07
	Q.3	(a)	Define mortar. Explain cement and lime mortar.	03
			Write the difference between Rubble masonry and Ashlar masonry.	04
		(c)	Draw the typical sketches, showing the following and define them: a) Corbel, b) Jambs, c) Frog , d) Queen closer e) King closer ,f) Coping ,g) Stretcher	07
			OR	
	Q.3	(a)	What you understand by "Composite Masonry"?	03
	C	(b)	Define Cavity wall. What are its advantages?	04
		(c)	Explain with sketch:	07
			a) RCC Lintelb) Semi- Circular arch	
	Q.4	(a)	Explain various properties of concrete.	03
		(b)	Differentiate between Fixed and Pivoted windows.	04
		(c)	Differentiate between pre-cast and cast in situ concrete construction. Write advantages and disadvantages of pre-cast cast construction. OR	07
	Q.4	(a)	Define the following with figure in relation to stair:	03
	-		a) Tread, b) Riser, c) Landing	
		(b)	Describe essential requirements of floor.	04
		(c)	What are the factors affecting the selection of size, shape, location and number of windows in a room?	07
	Q.5	(a)	What is difference between plastering and pointing?	03
		(b)	Describe the king post roof truss with figure.	04
	~ -	(c)	Define Shoring and underpinning. Explain any one method of each. OR	07
	Q.5	(a) (b)	Write a note on needle scaffolding. Briefly explain Thermal insulation of exposed wells	03 04
		(b) (c)	Briefly explain Thermal insulation of exposed walls. Explain about principle and construction of green building.	04 07
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