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GUJARAT TECHNOLOGICAL UNIVERSITY

		DE GENERAL MARKA EVANNATION MARKET AND	
~ .		BE - SEMESTER-III (NEW) EXAMINATION - WINTER 2021	
	•	Code:3130607 Date:19-02-	-2022
	-	Name: Building Construction Technology	
):30 AM TO 01:00 PM Total Mark	ks:70
Inst	ructio		Y
	1.	Attempt all questions.	Y
	2. 3.	Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
	4.	Simple and non-programmable scientific calculators are allowed.	
		The same are programmed and an are same and are same and are same	MARKS
Q.1	(a)	Enlist types of buildings.	03
V.1	(b)	Distinguish between shallow foundations and deep foundations.	04
	(c)	Suggest and briefly explain the method of soil investigation when the depth	07
	(0)	of exploration is substantial and speed of investigation is of prime	0 /
		importance.	
Q.2	(a)	Explain chemical grouting method to control ground water.	03
	(b)	Draw a neat sketch showing component of scaffolding.	04
	(c)	Enlist types of coffer dam and explain any two with neat sketch.	07
		OR	
	(c)	Describe factors to be consider in order to limit fire spread.	07
0.2	(2)	Define Deslains heals Demonst Chaire	0.2
Q.3	(a)	Define: Racking back, Parapet, Coping Discuss precautions to be taken during construction of cavity wall.	03 04
	(b) (c)	Draw a neat sketch of double flemish bond and discuss it's important	07
	(c)	features.	07
		OR	
Q.3	(a)	Define lintel and draw a neat sketch showing RCC lintel.	03
	(b)	Explain uncoursed rubble masonry.	04
	(c)	Discuss the method of applying cement plaster.	07
0.4	()		0.2
Q.4	(a)	Draw a neat and labelled sketch of door shutter.	03
	(b)	Describe the procedure of constructing marble flooring. Enlist types of upper floors and describe any one with neat sketch.	04 07
	(c)	OR	07
Q.4	(a)	Draw a neat and labelled sketch of casement window.	03
	(b)	Define: 1) Scotia 2) Winders 3) Landing 4) Going	04
	(c)	Classify pitched roof and explain king post truss with neat and labelled	07
	X	sketch.	
Q. 5	(a)	Define workability of concrete and list out tests to measure it.	03
V.5	(b)	Compare the precast concrete with cast in situ concrete.	04
	(c)	Describe the concept and important features of Green Building.	07
		OR	
Q.5	(a)	Describe the application of 3D printing in Civil Engineering.	03
	(b)	Explain the causes of failure of falsework.	04
	(c)	Draw a neat sketch of shuttering for RCC slah	07
