GUJARAT TECHNOLOGICAL UNIVERSITY

BE -SEMESTER 1&2(NEW SYLLABUS) EXAMINATION- WINTER 2018

Sub	Date: 10-01-20	e: 10-01-2019					
Subject Name: BASIC CIVIL ENGINEERING Time: 10:30 am to 01:00 pm Total Instructions:							
msu	1. 2.	Attempt all ques Make suitable as Figures to the ri	sumptions when				
Q.1	(a) (b)		nes of Civil Eng es of planning a	gineering nd describe any one in		Marks 03 04	
	(c)	Enlist different types of foundation and explain Open footing					
Q.2	(a) (b) (c)	Explain Application of Total station Explain features of smart cities The following sequential readings were taken on a sloping ground. The first reading was taken on a BM of 50.000 m. Find out RL of each point and apply arithmetical check 0.450,0.560, 0.785,1.200,2.500,3.480,0.320,0.655,0.985,1.300					
	(c)	Line AB BC CD	s and correct the FB 55°30' 113°00' 190°00'	em if necessary BB 235°00' 293°30' 10°00'	craverse ABCD find out	07	
Q.3	(a) (b) (c)	DA 279°00' 99°00' Enlist Instruments used in chain surveying Draw sketch of Dumpy level and show all parts Give classification of solid waste and describe why its segregation in wet and dry is necessary?					
Q.3	(a) (b) (c)	OR Describe primary division of surveying Draw traffic signals for (i) speed limit (ii) No parking Which are the water quality standards . Give values of water quality standard					
Q.4	(a) (b) (c)	for PH and Total dissolved solids as per IS 10500:2012 Describe house water connection with sketch Give difference between Surveyors and prismatic compass Enlist different bonds of Brick and Describe English bond in detail					
				OR		03	
Q.4	(a) (b) (c)	b) Explain Aim ,objectives and key features of BRTS					
Q.5	(a)	As a Civil Engineer discuss your role in society			03		

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	(b)	Explain physical and chemical properties of cement				
	(c)	Describes characteristics of contour in brief				
		OR				
Q.5	(a)	Give application of Remote sensing				
	(b)	Give Dimension of Modular Brick and discuss characteristics of first class	04			
		brick				
	(c)	Explain concept and functions of smart cities.	07			
