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Darshan Institute of Engineering & Technology

B.E. Semester – I • Pre GTU Examination – February 2021

Subje	ct Code	: 3110004		Date : 15/02/2021		
Subje	ct Nam	e : Basic Civil Engi	neering			
Time Instru	ıctions	2. Figure to the	30 pm FOUR out of SEVEN questions right indicate full marks. kind of rough work or calculate.			
Q. 1	(A) (B) (C)	Explain pointing br Enlist principles of Discuss scope of civ	building planning. And ex	plain flexibility.	03 04 07	
Q. 2	(A) (B) (C)	Which are the open with figure.	of civil engineering mate rations in chain surveying ties of a good timber? Writ	g? Explain chaining on level ground	03 04 07	
		·	<u> </u>			
Q. 3	(A) (B) (C)	Explain types of offsetting. Briefly explain road markings and traffic islands. Discuss types and properties of concrete.		03 04 07		
Q. 4	(A) (B) (C)	What are the various types of loads acting on building? Explain dead load. Enlist Traffic control devices? And explain traffic signs. The following bearing are observed while running a closed traverse PQRSTP. Find out included angles and correct them if necessary.				
		SIDE PQ QR RS ST TP	FB 68° 138° 193° 302°30' 17°	BB 248° 319° 13° 123°30′ 194°30′		

(A) Briefly explain privacy and grouping.

Describe with sketches the characteristics of contours.

Q. 5

(B)

Ų. 5	(C)	The following consecutive readings were taken with a level and a 4m staff at a common interval of 30m, the first reading was taken at B.M. having R. L. = 100m. The instrument was shifted after the fourth and ninth readings. Rule out a page of a level book, enter the readings given and also calculate the reduced levels of the points by the height of instrument method. Also apply arithmetic checks. Consecutive readings are: 2.650, 1.745, 0.625, 0.260, 2.525, 2.160, 1.235, 0.870, 1.365, 0.625, 1.790 and 2.535.	07
Q. 6	(A)	What do you understand by direct ranging? Describe it in detail with neat sketch.	03
	(B)	Enlist classification of aggregate.	04
	(C)	What are the main reasons for the formation of slums?	07
Q. 7	(A)	What are the various types of land uses?	03
	(B)	What are benefits of green buildings?	04
	(C)	Discuss the general features of earthquake resistant buildings.	07

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