B.TECH. SEM -I (CHEMICAL/ CIVIL/ ELECTRICAL/ MECHANICAL/ PRODUCTION/ COMPUTER/ INFO. TECH./ ELECTRONICS / BIO MEDICAL / E & TC) 2014 COURSE (CBCS)

: SUMMER - 2018

SUBJECT: FUNDAMENTALS OF CIVIL ENGINERRING

Day: Date:	Wednesday 23/05/2018		S-2018-2206	Time: 10.00 AM TO Max Marks. 60	01.00 1
N.B.					
	1)	All que	estions are COMPULSORY.		
	2)		s to the right indicate FULL marks.		
	3)		e suitable data, if necessary.		
	4)	Draw n	neat diagram WHEREVER necessary.		
Q.1	a) b)		role of civil engineering in various cons y five materials used in construction and OR		(05) (05)
Q.1	a)	Compare load bearing and framed structure.		(05)	
	b)	State five floor material and state advantages of each material.			(05)
Q.2		List and define axes of dumpy level? With neat sketch state the relation between the axes of Dumpy level. OR			(10)
Q.2		at every 2.626, 1. The RL of	owing readings were taken with a dumpy 30m, 1.300, 1.700, 1.900, 0.970, 1.800, 972,2.325. The instrument was shifted at of the first point was 250.50 m Calculate ethod and apply usual check.	2.300, 2.670, 1.890, 2.405, fter 3 rd , 7 th and 10 th reading.	(10)
Q.3	a)	Commen building'	nt "Privacy is the important principle	of planning in residential	(05)
	b)	_	five factors affecting orientation of buil OR	ding.	(05)
Q.3	a) b)	What is	necessity of planning of building? meant by Eco – friendly structures? Les used in construction.	ist any five eco – friendly	(05) (05)
Q.4	a) b)	•	five functions of foundation. Type of foundation and state suitability if OR	each.	(10)
Q.4	a)	State any	five causes and effects of earth quakes.		(05)
	b)	•	at sketch define the term related to earth of	quakes	(05)
	ŕ	i) Seismo	ograph ii) Focus		
		iii) Epice	enter iv) Isoseismic li	ines	
Q.5		Draw a la	ayout of water treatment plant and state f	function of each unit.	(10)
Q.5		List meth	OR nods of irrigation and state their merits a	nd demerits	(10)
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Q.6		State typ	es of roads and write their suitability. OR		(10)
Q.6			eat sketch of section of railway track ents of railway track.	and state function of five	(10)