GANPAT UNIVERSITY

B.Tech. Semester II (CIVIL), Regular Examination – May/June: 2012

	n. No.	of the candidat	te:	nts of Civil		Max. Marks: 70		
Inst	ructior	is: - (1)Ans books.	swer to the tw	o sections mu	st be writte	en in separate answe	r	
		(2) Fig	ures to the ri g	ght indicate fu data if require	ıll marks			
			Se	ection — I				
Q-1	(A)	Enlist vario	us branches o	of Civil Engir	neering. Ex	xplain geotechnical,	6	
	(B)	rater resources and structural engineering.						
Q-1	Q-1 (A) Explain Gantt bar charts. Write down its advantages and disadvantages also.						6	
	(B)	Which instrudetail.	es also. Iments are us	ed for chain s	urveying?	Explain any two in	5	
Q-2	(A)	What are the characteristics and uses of contour lines?						
	(B)	What do you know about Remote Sensing? Explain its process and write its uses also.						
Q-2	(A) Explain total station. Write down its uses, advantages and disadvantages.							
	(B)	Show with no	eat sketches th	ne characterist hill, a ridge, a	ics feature valley, a	s of contour lines vertical cliff and	6	
Q- 3	(A)	Give the difference between Rise fall and H. I. method.						
	(B)	(B) The following bearings were observed while working with a compass. Mention which stations are affected by local attraction and						
		determine the	correct bearing	ianons are arr ngs.	ected by le	ocal attraction and		
		Line	PQ	QR	RS	SP		
		FB	55 ⁰	212 30 ⁰	205 ⁰	2570		
		BB	234 ⁰	294 ⁰	25 ⁰	75 30 ⁰		

<u>Section – II</u>

Q-4	(A)	What is workability? Which tests are carried out for workability?	6
		Explain any one in detail.	·
	(B)	What are the requirements of good quality bricks?	5
		OR	
Q-4	(A)	What is mortar? What are its uses? What are the requirements of	6
	(T)	good mortar?	•
	(B)	Draw a cross – section of a tree stem and explain its various components.	5
Q-5	(A)	Draw a highway cross-section and show various components.	6
	(B)	Explain construction and working of Planimeter with neat sketch. OR	6
Q-5	(A)	Write a short note on Watershed development.	_
-	(B)	Civo alogaification C	6
	(2)	importance.	6
Q-6	(A)	Explain with a neat sketch the hydrological cycle.	4
	(B)	The following readings were observed with dumpy level and 4m	8
		leveling staff on a continuously sloping ground. The first reading was	U
		taken on B. M. of R. L. 400m. The readings are 3.555, 2.225, 1.830,	
		0.675, 3.445, 2.885, 1.635, 1.115, 0.775, 3.775 and 2.935. Enter the	
		reading in tabular form and calculate R. L. Also apply check, solve	
		by any method.	

END OF PAPER