	Student Exam No	
	Ganpat University	
В.	Tech Sem I & II CBCS (New) Regular & Remedial Examination April-June	
	- I IVI DICHICHIS AT I IVII Engineering	2017
Time:	3 Hours Max	l C0
Instru		
	 (1) Answer to the two sections must be written in separate answer (2) Figures to the right indicate full marks. (3) Assume suitable data if required. 	books.
01 (4)	SECTION - I	
Q1 (A) (B)	the distriction of civil engineering and evolution and evolutions	(5)
(13)	and shabsineation of aggregates.	(5)
Q1 (A)	Differentiate between CPM and PERT.	(-)
(B)	Enlist various uses of lime.	(5)
	various uses of fille.	(5)
Q2 (A)	What are the requirements of a good timber?	
(B)	Explain: Rapid hardening cement, low heat cement	(5)
	OR	(5)
Q2 (A)	Give the classification of sand.	
(B)	Enlist different types of concrete and explain any one.	(5) (5)
Q3 (A)	Enlist the principles of building planning and explain any one.	
(B)	Explain hydrological cycle with a diagram.	(5)
	diagram.	(5)
	<u>SECTION – II</u>	
Q4 (A)	Explain the two basic principles of surveying.	(2)
(B)	A rectangular plot of area 14144 m ² is represented by 8.5 cm x 6.5	(3)
	and the scale of map and mention its R F	(3)
(C)	What is meant by closing error in a closed traverse? How would you adjust it graphically?	(4)
Q4 (A)	Write short note on "I. I	
	Write short note on "Indirect Ranging".	(3)
(B)	What is a compass? What are its essential three parts? State the main types of compass.	(3)

(C) The following bearings were observed with a compass for the closed traverse (4) ABCDA. Find the included angles and corrected bearings of the lines.

F.B.	B. B
120°	300°
	20°
	131°
	209°
	F.B. 120° 200° 310° 30°

Q5 (A) Differentiate between the following:

(5)

- 1. Base line. Check line and tie line
- 2. Horizontal equivalent and contour interval
- 3. Flexible pavement and rigid pavement

(5)

(B) What is GPS? Explain its use in civil engineering field.

OR

Q5 (A) Enlist types of level. Describe Dumpy level with neat sketch.

(5)

- (B) What do you meant by contour? What are the uses of contour? Draw the neat (5) sketch of Hill and Pond.
- Q6 (A) List the modern tools used in surveying and mapping. Explain any one in detail. (5)
 - (B) The following consecutive readings were taken with a dumpy level along a chain line at regular distance of 20 m by using 4 m levelling staff. The instrument was shifted after 4th and 8th readings. The readings are:

0.250, 0.570, 1.520, 2.540, 0.835, 1.350, 1.770, 2.345, 0.605, 1.270, 2.750.

A bench mark with reduced level of the 1st point as 51.00 m.

- (a) Prepare a page of level book and enter these readings.
- (b) Calculate RL of all points and
- (c) Apply the usual checks.

Use any method of elevation measurement.

END OF PAPER