No.	of	Printed	Pages	:	2
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BICE-004

00194

B.TECH CIVIL ENGINEERING (BTCLEVI)

Term-End Examination June, 2014

BICE-004: ADVANCE SURVEYING

Time	e : 3 E	Iours Maximum Marks :	70
Not		nswer any five questions. Assume missing data if and lse of scientific calculator is permitted .	iy.
1.	(a)	What are the different methods employed in tacheometric survey? Explain the method commonly used.	7
	(b)	How do you determine the constants of a tachometric in the field ? Explain.	7
2.	(a)	What is the purpose of a shore line survey? Explain how would you locate the banks of a wide river?	7
(b)	What is meant by three point problem in hydrographic surveying? How is it solved mechanically?	7	
3.	(a)	Mention the various methods of setting out a simple curve. Explain the method of offsets from chords produced.	7
	(b)	Two tangents intersect at the chainage 1190 m, the deflection angle being 36°. Calculate all the data necessary setting out a circular curve with radius of 300 m by deflection angle method. The peg interval is 30 m.	7

How are the triangulation systems 4. (a) 7 classified? Indicate the use of each system. What are the steps taken to ensure accuracy 7 (b) in: (i) Angular measurements. Linear measurements in triangulation. (ii) Draw neat sketches and explain the following 5. 14 terms: (a) Declination Hour angle and right ascension (b) Azimuth and altitude (c) (d) Celestial poles Define remote sensing and briefly explain 7 6. (a) the principle of remote sensing. Write a note on application of remote 7 (b) sensing. Write short notes on any two of the following: 7. 2x7 = 14Use of Automatic Laser Level (a) (b) Electronic Distance Measurement (EDM) (c) Photo Mosaics