JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT TEST -1 EXAMINATION- 2025

B.Tech-III Semester (CE)

COURSE CODE (CREDITS): 25B11CE312 (3)

MAX. MARKS: 15

COURSE NAME: Surveying

COURSE INSTRUCTORS: Ashish Kumar

MAX. TIME: 1 Hour

Note: (a) All questions are compulsory.

(b) The candidate is allowed to make Suitable numeric assumptions wherever required for solving problems

Q.No	Question	100	
QI(a)	Why hypotenusal allowance is provided in measurement of 11 d	CO	Mark
	18 diam of 20 III length was used to measure the diates at the	, 1	2
	Calculate the hypotenused of the property of the propert		
Q1 (b)	Differentiate between plane surveying and geodetic surveying.	ļ	
Q1 (c)	How do we measure offsets along a chain line? How many offsets you will prefer for a road crossing (i) vertical to the interpretation of the second crossing (i) vertical to the interpretation of the second crossing (ii) vertical to the interpretation of the second crossing (ii) vertical to the interpretation of the second crossing (ii) vertical to the interpretation of the second crossing (iii) vertical to the second croad crossing (iii) vertical to the second crossing (iii) vertical	1	1
	prefer for a road crossing (i) vertical to about 11 How many offsets you will	1	2
	prefer for a road crossing (i) vertical to chain line and (ii) obliquely a chain line? show with neat diagram.	J	
Q1 (d)	How will you distinguish between a hill and depression of a terrain by studying the nature of contour?	 	
00	- Contour	1	1
Q2	A survey line was measured with by a 20 m chain which was accurate before the	2	-
	Jaming of day's work. After chaining 1000 m the chair and the	2	3
	I was coset you tild tilding is now a control language the state of th		
	distance of 2500 from the start of work, the chain was found to be 7 am too long.		
	Find out the correct distance of the chain line.		
Q3	Explain the term magnetic declination with neat diagram. The magnetic bearing		
	of a survey line is 140° 30′. What will be true bearing if declination is 5° 15′ W.	2	2
O4 (a)	Differentiate between whole simple the bearing it declination is 5° 15′ W.		
	Differentiate between whole circle bearing and Reduced Bearing with suitable example.	2	1
4 (b)			
	During a survey, three chain lines are drawn with following details. Compute the	2	3
	that angle of the triangle formed by these three chain lines.		J
	Line FB BB		
	AB 60° 30′ 240° 30′ BC 150° 15′ 2200 15′		
	CA 130 13 330° 15°		
	280° 30′ 100° 30′	1	