Roll No: | | | | | | | | | | | |

GAIN MORE KNOWLEDGE
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PRESIDENCY UNIVERSITY

Presidency University Act, 2013 of the Karnataka Act No. 41 of 2013 | Established under Section 2(f) of UGC Act, 1956
Approved by AICTE, New Delhi | Approved By BCI
Bengaluru

Mid Term Examinations - October 2026

Date: 07/10/2026 **Time:** 09:30 AM - 11:00 AM

Course Code: CIV2101 **Course Name:** Surveying

Semester: Third Semester **Max. Marks:** 50 **Weightage:** 50%

CO - Levels	CO1	CO2
Marks	40	50

PART A: Answer Following Questions. 10 M

Q.N.	Questions	M	CO	BT
1	Surveying is the art of determining the relative positions of different objects on the surface of the earth by measuring the horizontal distance between them. Write the uses of surveying.	2	CO1	BT1
2	What is whole to part principle in surveying?	2	CO1	BT1
3	What are the objectives surveying?	2	CO1	BT1
4	List the primary divisions of survey.	2	CO1	BT1
5	Define Scale. List any two types.	2	CO1	BT1

PART B : Answer Any 1 Following Questions. 10 M

Q.N.	Questions	M	CO	BT
6	Illustrate the method of direct ranging.	10	CO2	BT3
7	Illustrate the types of chain.	10	CO2	BT3

PART C: Answer Any 1 Following Questions. 15 M

Q.N.	Questions	M	CO	BT
8	True error is the difference between a measurement and its true value. Summarize the different types of error in surveying.	15	CO1	BT2
9	Summarize the different types of surveying based on the object of survey and instruments used.	15	CO1	BT2

PARTD: Answer Any 1 Following Questions. 15 M

Q.N.	Questions	M	CO	BT
10	In passing an obstacle in the form of a pond, stations A and D, on the main line were taken on the opposite sides of the pond. On the left of AD, a line AB 200 meter long laid down and a second line AC, 250 meter long was ranged on the right of AD, the point B,D and C being in the same straight line BD and DC were then chained and found to be 125 meter and 150 meter respectively. Find the length of AD.	15	CO2	BT3

11	Following are the bearings observed while traversing with the compass, an area where local attraction was suspected. Determine the correct bearings of the lines and also the true bearings, if the declination is 10 degree West.	15	CO2	BT3

Line	Fore bearing	Back bearing
AB	59°0’	239°0’
BC	139°30’	317°0’
CD	215°15’	36°30’
DE	208°0’	29°0’
EA	318°30’	138°45’