CLASS: BTECH   SEMESTER : IV
BRANCH: CIVIL   SESSION : SP2023

SUBJECT: CE208R SURVEYING

TIME: 02 Hours   FULL MARKS: 25

INSTRUCTIONS:
1. The question paper contains 5 questions each of 5 marks and total 25 marks.
2. Attempt all questions.
3. The missing data, if any, may be assumed suitably.
4. Tables/Data handbook/Graph paper etc., if applicable, will be supplied to the candidates

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			CO	BL
Q.1(a)	What is an offset? Which instruments are used for taking offsets?	[2]	CO1	K1
Q.1(b)	The following bearings were observed with a compass. Calculate the interior angles.	[3]	CO1	K3

AB = 60º30'
BC = 122º0'
CD = 46º0'
DE = 205º30'
EA = 300º0'

			CO	BL
Q.2(a)	What do you understand by closing error? Briefly explain the Bowditch's method of balancing the traverse.	[2]	CO1	K2
Q.2(b)	What is resection method? Briefly explain a three point problem. How do you solve it using the tracing paper method.	[3]	CO1	K2
Q.3(a)	Briefly describe the temporary adjustments of a levelling instrument.	[2]	CO2	K2
Q.3(b)	Differentiate between the height of instrument method and the rise and fall method.	[3]	CO2	K2
Q.4(a)	What are the uses of contours?	[2]	CO2	K1
Q.4(b)	An observer standing on the deck of a ship just sees a light-house. The top of the light-house is 42 m above the sea level and the height of the observer's eye is 6 m above sea level. Find the distance of the observer from the light-house.	[3]	CO2	K4
Q.5(a)	Write the names of different parts of a transit theodolite.	[2]	CO2	K1
Q.5(b)	Briefly explain the repetition method of measurement of horizontal angle.	[3]	CO2	K2

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