JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1 EXAMINATION- 2026

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
(c) Use of calculator is allowed.

Q.No	Question	CO	Marks
Q1	How will you perform a chaining operation across a river? Explain the procedure.	1	3
Q2	A distance of 3000 m was measured by a 30 m chain. After on, it was detected that chain was 0.1 m too long. Another 1000 m (total 4000 m) was measured and it was detected that the chain was 0.2 m too long. If the length of the chain in the initial stage was correct, determine the exact length that was measured.	1	3
Q3	A steel tape 30 m long is standardized at 60°F with a pull of 25Kg and used for measuring a base line. Find the correction per tape length, if the temperature at the time of measurement was 80°F and the pull executed was 38Kg. Unit weight of steel is 7.86 g/cc, weight of tape is 0.8Kg and E= 2.11 X 10^6 Kg/cm^2. Coefficient of thermal expansion is 6 X 10^{-6} per °F.	2	4
Q4	Differentiate between forward bearing and backward bearing with suitable example.	2	1
Q5	The following are the fore bearing of the sides of a closed traverse: Side FB AB 40° 30′ BC 115° 20′ CD 205° 10′ DA 310° 40′ Find out the interior angle of traverse.	3	4

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