BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI (MID SEMESTER EXAMINATION)

CLASS: BE BRANCH: CIVIL SEMESTER: VI SESSION : SP/2019

SUBJECT : CE6005 SURVEYING II

тім	E:	1.5 HOURS	FULL MARKS: 2	25
 INSTRUCTIONS: The total marks of the questions are 30. Candidates may attempt for all 30 marks. In those cases where the marks obtained exceed 25 marks, the excess will be ignored. Before attempting the question paper, be sure that you have got the correct question paper. The missing data, if any, may be assumed suitably. 				
Q1	(a) (b)	Define (i) Point of curve, (ii) Long chord What are the disadvantages of reverse curves?		[2] [3]
Q2		Two straights BA and AC are intersected by a line EF. The angles BEF and EF 145° respectively. A compound curve with common tangent EF has been se the first arc is 600 m and that of the second arc is 400 m. Find the chainage points, and the point of compound curvature, given that the chainage of the point A is 3415 m.	FC are 140° and t. The radius of of the tangent he intersection	[5]
Q3	(a) (b)	Define (i) Check base, (ii) Satellite station. What is sag correction (to be applied to base line measurement)? What we What is normal tension?	ould be its sign?	[2] [3]
Q4		A steel tape 20 m long standardized at 55°F with a pull of 10 kg was used to base line. Find the correction per tape length if the temperature a measurement was 80°F and the pull exerted was 16 kg. Weight of 1 c.c. of Wt. of tape = 0.8 kg and E = 2.109 x 10 ⁶ kg/cm ² . Coefficient of expansion of the F = 6.2 x 10 ⁻⁶ .	for measuring a at the time of f steel = 7.86 g. tape per degree	[5]
Q5	(a) (b)	Define (i) Conditioned quantity, (ii) Weight of an observation. What is (i) M.P.V., (ii) M.P.E.		[2] [3]
Q6		Write laws of weight with proper examples.		[5]

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