

Reg. No. :

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Question Paper Code: 54106

B.E. / B.Tech. DEGREE EXAMINATION, DEC 2020

Fourth Semester

Civil Engineering

01UCE406 – SURVEYING - II

(Regulation 2013)

Duration: 1.15 hrs

Maximum: 30 Marks

PART A - (6 x 1 = 6 Marks)

(Answer any six of the following questions)

1. If R is the radius of the main curve, θ the angle of deflection, S the shift and L the length of the transition curve, then, total tangent length of the curve, is
 - (a) $(R - S) \tan \theta/2 + L/2$
 - (b) $(R + S) \tan \theta/2 - L/2$
 - (c) $(R - S) \tan \theta/2 - L/2$
 - (d) $(R + S) \tan \theta/2 + L/2$
2. An ideal vertical curve to join two gradients, is
 - (a) parabolic
 - (b) circular
 - (c) elliptical
 - (d) hyperbolic
3. Difference between horizontal length and measured length along the cantenary is called
 - (a) sag correction
 - (b) slope correction
 - (c) pull correction
 - (d) alignment correction
4. The setting of points in the vertical direction is usually done
 - (a) Boning rods and travellers
 - (b) Sight Rails
 - (c) Slope rails or batter boards
 - (d) all the above
5. Systematic Error
 - (a) it produces a serious effect on the final result
 - (b) error that under the same conditions will always be of the same size and sign
 - (c) errors that arise from inattention, inexperience, carelessness and poor judgment
 - (d) all the above

