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Total No. of Pages : 02

Total No. of Questions : 18

B.Tech. (CE) (2018 Batch) (Sem.-3)

**SURVEYING & GEOMATICS**

Subject Code : BTCE-301-18

M.Code : 76370

Time : 3 Hrs.

Max. Marks : 60

**INSTRUCTIONS TO CANDIDATES :**

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

**SECTION-A****Write briefly :**

- Q1. What is latitude and departure?
- Q2. Write a brief note on GPS.
- Q3. Differentiate between swinging of telescope and transiting?
- Q4. Define the Principle of Tacheometry.
- Q5. What is meant by  $5^\circ$  curve? What will be corresponding radius of the curve?
- Q6. What are the uses of contour maps?
- Q7. Define Degree of Precision in Leveling.
- Q8. Explain the term Remote Sensing. Give one example of remote sensing in the normal life.
- Q9. Write any two errors in Total Station Survey.
- Q10. Define Photogrammetry Surveying.

**SECTION-B**

Q11. What do you understand by remote sensing? What is the difference between active and passive remote sensing?

Q12. Explain advantages and applications of Total Station.

Q13. Define method of Photographic mapping using paper prints.

Q14. Explain the basic principle of trigonometric leveling and the difference between plane and geodetic methods?

Q15. What is Ranging? How is reciprocal ranging done?

### SECTION-C

Q16. a) What are the different methods of locating contours? Describe merits and demerits of each.

b) What are characteristics of contours? Explain clearly with diagrams.

Q17. What is a three point problem? How is it solved by various methods? Explain each in detail.

Q18. What is GPS? Explain its working principle. What are the errors introduced in a GPS? Explain in brief.

**NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.**