

Code No: **RT4101A****R13****Set No. 1****IV B.Tech I Semester Supplementary Examinations, February/March - 2018****ADVANCED SURVEYING****(Civil Engineering)****Time: 3 hours****Max. Marks: 70***Question paper consists of Part-A and Part-B**Answer ALL sub questions from Part-A**Answer any THREE questions from Part-B************PART-A (22 Marks)**

1. a) Describe the principle of triangulation. [4]
- b) Discuss the prediction of tides. [4]
- c) Write note on mosaics. [3]
- d) Discuss the spherical trigonometry. [3]
- e) Describe the importance of total stations. [4]
- f) Explain the components of GPS. [4]

PART-B (3x16 = 48 Marks)

2. a) Discuss the different tape corrections. [8]
- b) Describe the order of triangulation. [8]
3. a) Explain the different types of tides. [8]
- b) Describe in detail about cross rope method. [8]
4. a) Explain in detail about combined effects of tilt and relief. [8]
- b) Discuss about the terrestrial photographs. [8]
5. a) Explain the application of astronomy in surveying. [8]
- b) Distinguish between latitude and longitude. [8]
6. a) List various input data to be given for distance measurement with total station. [8]
- b) Discuss briefly the preparations required for measurement with total station. [8]
7. Explain the different types of GPS and its accuracy. [16]