

T.E.(Civil Engineering)
ADVANCED SURVEYING
(2019Pattern) (Semester-VI)

1. Define coordinate systems for locating heavenly bodies, geographic, geodetic.
2. What do you mean by sounding? What are different purposes of sounding? Explain any one method of locating sounding
3. Explain different types of tidal gauges.
4. Define the following:
Altitude, Latitude, Right Ascension, declination, hour angle ,azimuth
5. Explain in brief Circumpolar stars and Star at elongation.
6. What is GIS? What are limitations of GIS?
7. Write short note on flight planning.
8. Derive expression for solving three point problem by analytical method
9. Discuss the method used for point positioning and differential GPS
10. Find the azimuth and altitude of star from the following data
Latitude of the place = 56°N
Hour angle of the star = $21^{\text{h}} 40^{\text{m}}$
Declination = $18^{\circ} 38'\text{S}$
11. Draw neat sketch of electromagnetic Spectrum and show wall bands.
12. Write short note on relative positioning and differential GPS.
13. Differentiate between Active and passive remote sensing.
14. Explain the element of visual image interpretation
15. Explain Satellite Constellation