

(Following Paper ID and Roll No. to be filled in your Answer Books)

PAPER ID :**Roll No.**

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B.TECH.**Theory Examination (Semester-IV) 2015-16****GEOMATIC ENGINEERING****Time : 3 Hours****Max. Marks : 100****SECTION-A****1: Attempt all questions****10×2 = 20**

- Define Data structure type.
- Define Pixel and Lambertian reflection.
- Define Atmospheric Windows and spectral signature.
- Define Platform and parallax.
- Define contouring.
- Define spectral signature.
- Define maps.
- Define GIS.
- Define Aerial photography.
- Define Use of magnetic compass.

SECTION-B**2. Attempt any five questions.****10×5 = 50**

- Explain maps and their types using survey of India map, and index numbering and symbols.
- Explain
 - Directing-Bearing and azimuths
 - Digital elevation model
- Discuss Principle of plane table surveying
- What is Aerial photography? Explain Scale, tilt and height displacement.
- Explain supervised and unsupervised classification.
- Explain GIS, concept of GIS and component of GIS.

SECTION-C**Attempt any two questions****15×2 = 30**

- Explain digital image processing in detail
- Discuss remote sensing and explain energy interaction with atmosphere and earth feature.
- Describe theodolite in detail and measurement of angle by its use


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