Roll No. ☐☐☐☐☐☐☐☐☐☐☐☐☐                    Total No. of Pages : 02

Total No. of Questions : 09

B.Tech.(CE) (2011 Onwards)  (Sem.–4)
# GEOMATICS ENGINEERING
## Subject Code : BTCE-401
## Paper ID : [A1171]

Time : 3 Hrs.                                                        Max. Marks : 60

**INSTRUCTION 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

1. **Write briefly :**

   a) What is an Angle of Parallax?

   b) Differentiate between Crab and Drift.

   c) What do you mean by Amplitude Modulation?

   d) What is the guiding principle behind Infrared Instruments?

   e) How do you INPUT data in GIS?

   f) What is Hierarchical Database structure?

   g) What are Geostationary Satellites?

   h) Why do you see sky orange or red at the time of sunrise and sunset?

   i) What is DGPS?

   j) For accurate position on the earth surface how many satellite should be in line ?

## SECTION-B

2.  Write a short note on Aerial Camera with diagram.

3.  Label various parts of a Electromagnetic Spectrum with neat diagram.

4.  Write a short note on Indian Remote Sensing Satellite (IRS).

5.  Discuss different components of GIS.

6.  Write a short note on common ERRORS encounter during use of GPS.

## SECTION-C

7.  What is Stereoscopic Fusion? Discuss various CLUES to Depth Perception.

8.  Discuss in brief salient features of Meteorological satellites.

9.  Describe in detail OVERLAY analysis of Raster data.