Your Roll No.

Sl. No. of Ques. Paper: 1344

F-7

Unique Paper Code

: 2191503

Name of Paper

: Remote Sensing & GIS

Name of Course

: B.Sc. (Hons.) Geology (Former FYUP)

Semester

: V

Duration:

: 3 hours

Maximum Marks

: 75

(Write your Roll No. on the top immediately on receipt of this question paper.)

Attempt any five questions. All questions carry equal marks.

Draw labelled diagrams wherever necesary.

- 1. Explain in detail the energy interactions with earth surface features.
- 2. Write short notes on:
 - (i) Atmospheric influences on spectral response patterns
 - (ii) Atmospheric window.
- 3. Differentiate between the following:
 - (i) Spatial and attribute data in GIS framework
 - (ii) DEM data and Digital satellite data
 - (iii) Tone and texture of aerial photograph.
- 4. What are UTM coordinates? What is their significance in geological studies?
- 5. Explain in detail the concept of resolution and its importance.
- 6. What is GPS? What are the sources of error in GPS? Why is error more in elevation in comparison to spatial coordinates?
- 7. Explain in detail the elements of photograph interpretation.
- 8. Discuss the application of remote sensing in:

- (i) Geomorphic mapping
- (ii) Structural mapping.