

M.Sc. DEGREE EXAMINATION, NOVEMBER 2016.

THIRD SEMESTER

Geology

Paper III — REMOTE SENSING AND GIS

Time : Three hours

Maximum : 75 marks

(No additional sheet will be supplied)

PART A — ($5 \times 3 = 15$ marks)

Answer any FIVE questions.

Each question carries 3 marks.

Each answer should not exceed 1 page.

1. Electromagnetic Spectrum.
2. Types of Sensors
3. Atmospheric windows
4. Vertical aerial photos
5. Vertical exaggeration
6. DEM quality assessment
7. Spatial and Non-spatial Data
8. Hardware and software of GIS.

PART B — ($4 \times 15 = 60$ marks)

Answer ALL questions.

Each question carries 15 marks.

Each answer should not exceed 6 pages.

9. Describe the types and scales of aerial photographs.

Or

10. Explain the spectral reflectance patterns with earth features in different wave lengths.

11. Explain the basic elements of aerial photo interpretation.

Or

12. Explain the basic elements of aerial photo interpretation.

13. Explain principles and basic concepts of Micro wave remote sensing.

Or

14. Describe the Digital Image Processing with suitable examples.

15. Write an essay on Database structures and Data formats in GIS.

Or

16. Write an essay on the applications of Digital Photogrammetry in GIS.

