



M.Sc. IV Semester Degree Examination, Sept./Oct. - 2024

APPLIED GEOLOGY

Advanced Geoinformatics

(NEP)

Time : 3 Hours

Maximum Marks : 70

Note : Answer **any five** of the following questions, each question carries **equal** marks.

1. Explain the following : 14
 - (a) Merits and Demerits of hyperspectral remote sensing.
 - (b) Types of resolutions with examples.
2. Add a note on : 14
 - (a) Vegetation indices of spectral remote sensing.
 - (b) Crop diseases and assessment in SRS.
3. Answer the following : 14
 - (a) Remote sensing of soil.
 - (b) Remote sensing of geomorphology.
4. Discuss the following : 14
 - (a) Remote sensing in urban and infrastructure planning.
 - (b) Remote sensing in land use and land cover classification.
5. Write a note on : 14
 - (a) RS-GIS applications of mineral investigation.
 - (b) RS-GIS applications of groundwater exploration.
6. Explain the following : 14
 - (a) Hyperspectral devices and instruments.
 - (b) Spectral characteristics of vegetation.
7. Discuss the following : 14
 - (a) RS-GIS applications of rocks and minerals.
 - (b) RS-GIS applications in petroleum exploration.
8. Write a short note on : 14
 - (a) Temporal characteristics of the vegetation.
 - (b) Advance crop monitoring in SRS.
 - (c) RS-GIS application in geological study.

