

**Ph.D. GEOLOGY  
(PHDGY)**

00465

**Term-End Examination**

**June, 2018**

**RGYE-112 : GEOLOGICAL APPLICATIONS OF  
REMOTE SENSING AND GIS**

*Time : 3 hours*

*Maximum Marks : 100*

**Note :** Answer any *five* questions. All questions carry equal marks.

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1. Give a detailed account of remote sensing and GIS applications in geological research. 20
2. Discuss in detail, the role of GNSS in geological studies. 20
3. Describe in detail, various aspects of ground truthing. 20
4. Write an essay on map projection with the help of suitable diagrams. 20

5. Discuss in detail, the advances in remote sensing techniques with special reference to geological applications. 20
6. Describe recent space programmes of India. 20
7. Write short notes on any **two** of the following : 2×10=20
- (a) Datum
  - (b) Sources of Raster Data
  - (c) Types of Geospatial Data
  - (d) Data Formats
8. Write short notes on any **two** of the following : 2×10=20
- (a) Concept of Topology and its Significance
  - (b) Principles of GNSS
  - (c) Accuracy Assessment
  - (d) Digital Image and its Types
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