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**Ph.D. GEOLOGY
(PHDGY)
Term-End Examination
December, 2018**

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

Time : 3 hours

Maximum marks : 100

Note : (i) Answer any five questions.

(ii) All questions carry equal marks.

1. Elaborate on the concept of map projection and its types. 20
2. Discuss in detail recent space programmes of India useful in geological studies. 20
3. Give detailed account of ground truthing. 20
4. Explain role of remote sensing and GIS in mineral exploration. 20
5. Discuss role of remote sensing and GIS in geomorphological studies. 20
6. Give detailed account of various sources of geospatial data. 20

7. Write short notes on any two of the following : **2x10=20**
- (a) Coordinate system
 - (b) Data products
 - (c) Data analysis tools
 - (d) Accuracy assessment
8. Write short notes on any two of the following :
- (a) Components of GNSS **2x10=20**
 - (b) Use of DEM
 - (c) Modern trends in GIS
 - (d) Data integration
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