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RGYE–112

Ph. D. (GEOLOGY) (PHDGY)

Term-End Examination

December, 2024

**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. Discuss in detail image classification methods. 20
2. Give a detailed account of principles of GPS operation. 20
3. What is data quality ? Explain the components of data quality. 20
4. Discuss the role of remote sensing and GIS in delineation of potential mineral zones. 20
5. Give a detailed account of data integration. 20

6. Discuss the role of remote sensing and GIS in engineering geological investigation. 20

7. Write short notes on any *two* of the following :

2×10=20

- (a) Accuracy assessment
- (b) Elements of a map
- (c) Map projection
- (d) Data visualisation

8. Write short notes on any *two* of the following :

2×10=20

- (a) Application of DEM in identification of different types of landforms
- (b) Topology
- (c) Data quality issues
- (d) Advances in GIS

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