Ph.D. GEOLOGY (PHDGY)

Term-End Examination

December, 2022

RGYE-112 : GEOLOGICAL APPLICATIONS OF REMOTE SENSING AND GIS

1 <i>im</i>	e: 3 hours Maximum Marks:	Maximum Marks : 100	
Not	Note: Answer any five questions. All questions carry equal marks.		
1.	What is data format? Discuss in detail different types of data formats.	20	
2.	Discuss in detail the sources and types of geospatial data.	20	
3.	Give detailed account of types and components of GNSS.	20	
4.	Explain the role of Remote Sensing and GIS in groundwater exploration.	20	
5.	Give a detailed account of advances in image analysis and feature extraction.	20	
6.	Discuss in detail recent space programmes of India useful in geological research.	20	

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- 7. Write short notes on any two of the following: $2\times10=20$
 - (a) Applications of GNSS
 - (b) DEM
 - (c) Spatial Analysis
 - (d) Ground Truthing
- **8.** Write short notes on any two of the following: $2\times10=20$
 - (a) Recent trends in GIS
 - (b) Datums
 - (c) Coordinate system
 - (d) Hyperspectral remote sensing