

**Total Pages—3 PG/IIS/RSG/204.2/25(2023-24)**  
**(CBCS)**

**M.Sc. 2nd Semester Examination, 2025**

**REMOTE SENSING AND GIS**

*( Fundamentals of Geographic Information  
System & Navigational Satellite System)*

**PAPER – RSG-204.2(2023-24)(CBCS)**

*Full Marks : 25*

*Time : 1 hour*

**Answer all questions**

*The figures in the right hand margin indicate marks*

*Candidates are required to give their answers in  
their own words as far as practicable*

*Illustrate the answers wherever necessary*

**GROUP – A**

**Answer any two from the following questions :**

**2 × 2**

**1. What is the full form of IRNSS and NavIC ?**

**( Turn Over )**

2. How many GCPs are required for georeferencing with 1st order Polynomial Transformation ?
3. What are the limitations of GIS ?
4. What do you mean by NAVSTAR GPS ?

**GROUP – B**

Answer any two from the following questions :

5. Mention the characteristics of raster and vector data structure. 4 × 2
6. Briefly mention the types of digitization errors.
7. Discuss about the space segment of GNSS GPS.
8. Discuss briefly about different sources of errors in GPS radio signal.

( 3 )

**GROUP-C**

Answer any one from the following question :

8 × 1

9. Discuss about the components of GIS.

What are the methods of digitization in GIS ?

5 + 3

10. How does the IRNSS differ from NAVSTAR

GPS ? Discuss about signal characteristics

and operational concept of GNSS GPS. 8

**[ Internal Assessment – 5 Marks ]**

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