

**M. Sc. 1st Semester Examination, 2024**

**REMOTE SENSING AND GIS**

*(Surveying and Navigational Satellite System)*

**PAPER – RSG-106**

*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 questions :                      2 × 2**

**1. What is the acronym for NavIC ?**

*( Turn Over )*

2. What is meant by Ground Truthing ?
3. What is traversing in surveying ?
4. Give two examples of how PPK and RTK modes differ for GPS surveying.

**GROUP-B**

Answer any **two** questions : 4 × 2

5. Briefly discuss about atmospheric error associated with propagated GPS signal.
6. Write a short note on CORS & NTRIP.
7. Describe NAVSTAR GPS satellite constellation with diagram.
8. Critically compare between GNSS and IRNSS.

( 3 )

**GROUP – C**

**Answer any one question :                      8 × 1**

- 9. What is a Total Station ? Discuss its components, functionalities and advantages in modern surveying practices.**
  
- 10. Explain different segments of NAVSTAR GPS with suitable sketches.**

**[ Internal Assessment – 5 Marks ]**

