22I604 (Pages: 2) Name : .....

Reg. No : .....

SIXTH SEMESTER M.Sc. INTEGRATED GEOLOGY DEGREE EXAMINATION, APRIL 2025

(CBCSS)

(Regular/Supplementary/Improvement)

CC20 GLO6 IE01 (E01A) - REMOTE SENSING AND GIS

(Geology)

(2020 Admission onwards)

Time: 2 Hours Maximum: 60 Marks

Credit: 3

Part A (Short answer questions)

Answer ***all*** questions. Each question carries 2 marks.

1. Discuss Airborne and ground based platforms
2. Differentiate image and photograph?
3. Differentiate is High Oblique and low photographs?
4. What is GDOP?
5. Define Swath?
6. What is GRASS?
7. What is Geospatial data?
8. Define Navigation
9. Define Map projection
10. Raster data structure
11. Data sources
12. Topology enforcing

(Ceiling: 20 Marks)

Part B (Short essay questions - Paragraph)

Answer ***all*** questions. Each question carries 5 marks.

13. Compare the different photography methods involved in the history of Remote sensing.
14. Discuss the spectral reflectance curve for vegetation,soil and water.
15. What are the elemets of satellite orbit?
16. Discuss the first, second and third law of Keplers planetery motions.

17. Describe the raster data models.

18. Describe the characteristics of spatial data.

19. Describe the Geodatabases and distributed databases.

(Ceiling: 30 Marks)

Part C (Essay questions)

Answer any ***one*** question. The question carries 10 marks.

20. Discuss the different orbital elements and its relevance in framing orbits.

21. Describe the cartographic map and explain the general rules for constructing a map.

(1 × 10 = 10 Marks)

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