21I604 (Pages: 2) Name: .....

Reg.No: .....

SIXTH SEMESTER M.Sc. INTEGRATED GEOLOGY DEGREE EXAMINATION, APRIL 2024

(CBCSS - PG)

(Regular/Supplementary/Improvement)

CC20I GLO6 IE01 (E01A) - REMOTE SENSING AND GIS

(Geology)

(2020 Admission onwards)

Time : 2.00 Hours Maximum : 60 Marks

Credit : 3

Part A (Short answer questions)

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

1. Explain the influence of WW1 and WW2 on remote sensing.
2. Explain Passive remote sensing.
3. Briefly Explain spatial and spectral resolution.
4. What is true Anomaly?
5. Role of velocity jets in satellites.
6. Define Methods.
7. What is Vector data?
8. Define Data collection.
9. Define Verbal scale.
10. Network data model.
11. Basic elements of vector data model.
12. What is Data modeling?

(Ceiling: 20 Marks)

Part B (Short essay questions - Paragraph)

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

13. Discuss the EM Spectrum.
14. Draw and explain the geometry of Aerial photograph.
15. Differentiate the aspects between aerial photography and photogrammetry.
16. Explain the perturbed motions of satellites.

17. Explain the different types of vector data file formats.

18. Give a short note on topology error detection and error correction.

19. Describe the characteristics of non-spatial data.

(Ceiling: 30 Marks)

Part C (Essay questions)

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

20. Explain the visual interpretation key elements to interpret satellite images.

21. Summarize the Visualization of geographic data, collection methods and it's types.

(1 × 10 = 10 Marks)

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