

2022/TDC(CBCS)/EVEN/SEM/ GELSEC-601T/255

TDC (CBCS) Even Semester Exam., 2022

GEOLOGY MARIE OF JUST W

(6th Semester) de Maria de 14

Course No.: GELSEC-601T

(Photogeology and Remote Sensing)

Full Marks: 50
Pass Marks: 20

Time: 3 hours

The figures in the margin indicate full marks for the questions

SECTION—A

Answer/Write on any fifteen of the following:

1×15=15

- 1. Define remote sensing.
- 2. Name one weather and one earth observation satellite.
- 3. What do you mean by geosynchronous orbit?
- **4.** What is the major difference between a vertical aerial photo and an oblique photo?

(Turn Over)

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(2)

(3)

5. The wavelength of visible spec	rum
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- 6. What is stereopair?
- Write the abbreviation of LISS.
- 8. Name one foreign remote sensing satellite.
- 9. Define raster data.
- 10. Give two examples of vector data.
- 11. Write the number of bands used in MSS:
- 12. Write the full forms of GIS and GPS.
- 13. What is the full form of RADAR?
- 14. Name two GIS softwares.
- 15. What is GCP?
- 16. What is radiometric correction?
- **17.** Write one difference between a photo and an image.
- 18. What are DN numbers?
- 19. What is 'decision' in image classification?
- 20. What is GIS datum?

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(Continued)

SECTION-B; and granted onto 1.41

Write short notes on any five of the following: 2×5=10

- 21. Aerial photography and its product
- 22. Aerial camera
- 23. Stereoscope the same with her sage
- 24. Remote sensing technology
- 25. Active and passive sensors with example
- 26. FCC
- 27. Georeferencing
- 28. Pattern recognition
- 29. GIS tools
- 30. User segment of GIS

SECTION—C - 1802 W/J riting

Answer any five of the following questions: 5×5=25

31. Write two advantages and two limitations of aerial photography. What are the factors affecting aerial photography? 2+3=5

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(4)

Write chart the steps of image classification

32. Write notes on the following: $2\frac{1}{2} + 2\frac{1}{2} = \frac{1}{2}$

(a) EMS

(b) Principal point, isocentre and nadir point

33. Write notes on the following: $2\frac{1}{2}+2\frac{1}{2}=5$

(a) Spectral reflectance curve and its application

(b) Space borne platform

34. Write two advantages of RS in comparison to aerial photography. Discuss the application of RS in geomorphological studies. 2+3=5

35. Write notes on the following:

21/2+21/2=5

(a) Foreign remote sensing satellites

(b) RADAR

36. Write about the Indian remote sensing satellites. Name the organization associated with the Space Mission in India. 4+1=5

37. Write notes on the following:

21/2+21/2=5

(a) Supervised classification

(b) DIP

(Continued)

Write about the steps of image classification.Add a note on image preprocessing. 3+2=5

(5)

39. Define GIS and name the components of GIS.
Write about the software system of GIS.
1+1+3=5

40. Explain the following:

21/2+21/2=5

(a) Space segment of GIS

(b) Product generation in GIS

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