

UG/5th Sem (H)/23/(CBCS)

2023

GEOGRAPHY (Honours)

Paper Code : GEOH DSE-1A

Full Marks : 25

Time : Two Hours

*The figures in the margin indicate full marks.
Candidates are required to give their answers
in their own words as far as practicable.*

(Remote Sensing and GIS)

Group - A

Answer any *one* question of the following :

10×1=10

1. Elucidate the mechanism of collection of spatial data through remote sensing technology. Identify its advantages and disadvantages. What is the relation between EMS and band in remote sensing? 4+4+2=10
2. Explain the components of GIS. Discuss the application of GIS in Environment and Natural Resource Management. 4+3+3=10

P.T.O.

(2)

Group - B

Answer any *three* questions of the following :

5×3=15

3. What do you mean by FOV and IFOV? Mention their relation with spatial resolution of satellite sensors with examples. 3+2=5
 4. What is push broom scanning? Describe the significance of atmospheric windows in remote sensing. 2+3=5
 5. Describe the advantages of raster data structure with examples. How is a scanned map converted into GIS database for analysis? 2+3=5
 6. Write a short note on Landsat OLI sensor. What is spatial resolution? 3+2=5
 7. Write a short note on Global Navigation Satellite System. (GNSS). 5
 8. Write a short note on Spectral Reflectance Curve. 5
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(3)

(Political Geography)

Group - A

Answer any *one* question of the following :

10×1=10

1. Discuss elaborately the Geo-strategic concept given by H. J. Mackinder. 10
2. Distinguish state, nation and nation-state with suitable example. Define 'Pivot area'. 7+3=10

Group - B

Answer any *three* questions of the following :

5×3=15

3. Briefly discuss the scope of the Political Geography.
 4. What are the major criticisms of Rimland theory?
 5. Distinguish between Frontiers and Boundaries.
 6. What do you mean by Ecumene? Shortly elaborate inter-state dispute on water resource of India. 2+3=5
 7. Write a short note on 'Gerrymandering'.
 8. What is the difference between territorial integrity and sovereignty?
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