

## UG 5th Semester Examination 2021

### GEOGRAPHY (Honours)

Paper: DSE-1A

[Remote Sensing and GIS ]  
(CBCS)

Full Marks: 25

Time: Two Hours

*The figures in the margin indicate full marks.*

#### Group - A

Answer any one question of the following:

10×1=10

1. Give a functional definition of Remote Sensing? Point out different stages of Remote Sensing process with suitable illustrations.

2+8

2. What do you mean by Raster and Vector data structure? Differentiate their functions in mapping in GIS platform.

4+6

#### Group - B

Answer any three questions of the following:

5×3=15

3. Discuss the hardware components of GIS.

5

4. Describe different segments of GNSS.

5

5. What are the advantages of GIS in geographic investigation?

5

6. Elucidate basic principles of Remote Sensing.

5

7. Differentiate between whiskbroom and push-broom types of RS Sensors.

5

8. Elucidate the Standard False Colour Composition (FCC) of Land Sat OLI image.

5

***Or***  
**[Political Geography (Theory)]**

Figures in the margin indicate full marks

Full Marks: 25

Time: Two Hours

Group-A

Answer any one question of the followings

10×1=10

1. What do you mean by frontier? Briefly describe the classification of Boundaries.

2+8=10

2. What is meant by buffer states? Critically discuss Mackinder's Heartland theory

2+8=10

Group-B

Answer any three questions of the followings

5×3=15

- |                                                                            |   |
|----------------------------------------------------------------------------|---|
| 3. Shortly elaborate the Inter-state dispute on water resource of India.   | 5 |
| 4. What are the major criticisms of Rimland theory?                        | 5 |
| 5. Briefly discuss the scope of political geography.                       | 5 |
| 6. What are the differences between Exclave and Enclave?                   | 5 |
| 7. Explain how Gerrymandering is used as an instrument of electoral abuse. | 5 |
| 8. Write a short note on "Territory"?                                      | 5 |