

2021
GEOGRAPHY
[HONOURS]
Paper : VIII

Full Marks : 80

Time : 4 Hours

*The figures in the right-hand margin indicate marks.**Candidates are required to give their answers in their own words as far as practicable.***GROUP-A****(Contemporary Issues in Geography)****(Marks: 30)**

1. Answer any **four** from the following: $1 \times 4 = 4$
- What do you understand by *biodiversity*?
 - Name a man-made hazard taken place in India.
 - What is funnel cloud?
 - What is *flash flood*?
 - What is meant by *avalanche*?
 - What is agricultural drought?

2. Answer any **two** from the following: $2 \times 2 = 4$
- What do you understand by *habitat loss*?
 - What do you mean by *twister*?
 - What is inversion of temperature?
 - Differentiate the afforestation from deforestation.
3. Answer any **two** from the following: $6 \times 2 = 12$
- Assess *dams* as a flood control measures.
 - Briefly discuss the environmental impact of hailstorm.
 - Compare the natural and quasi-natural hazards with examples.
 - State the relationship between deforestation and loss of biodiversity in brief.
4. Answer any **one** from the following: $10 \times 1 = 10$
- Explain the mechanism and consequences of tornado.
 - Assess the drought management strategies and practices in India.

GROUP-B

(Remote Sensing and GIS)

(Marks: 50)

5. Answer any **four** of the following: $1 \times 4 = 4$
- a) What is *band* in remote sensing?
 - b) What is meant by Pixel?
 - c) What do you mean by *nadir* in aerial photo?
 - d) What is FCC?
 - e) Define EMR.
 - f) Give an Indian example of telecommunication satellite.
6. Answer any **four** from the following: $2 \times 4 = 8$
- a) What is parallax?
 - b) Differentiate visual from digital technique of image interpretation.
 - c) What is LANDSAT?
 - d) What is SPOT?
 - e) What do you understand by radiometric resolution?
 - f) Distinguish between aerial photo and satellite imagery.

7. Answer any **three** from the following: $6 \times 3 = 18$
- a) Mention the advantages of GPS.
 - b) Discuss the type of aerial photographs with their bases.
 - c) Differentiate the supervised from unsupervised technique of image interpretation.
 - d) State the salient characteristics of sensors used in remote sensing.
 - e) Highlight the application of remote sensing and GIS in managing environmental degradation.
8. Answer any **two** from the following: $10 \times 2 = 20$
- a) Elucidate the role of photo-interpretation keys in visual image interpretation with necessary examples.
 - b) Compare the raster and vector data format with their advantages and disadvantages.
 - c) Make an account on RS-GIS and modern Cartography.