

2020
GEOGRAPHY
[HONOURS]
Paper : V
[OLD SYLLABUS]
[SUPPLEMENTARY]

Full Marks : 75

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
(Oceanography)
(Marks : 25)

1. Answer any **three** of the following questions:

1×3=3

- a) What is a 'Guyot'?
- b) What do you mean by 'Monsoon Drift'?
- c) Define 'photic zone'.
- d) What is meant by 'cold wall'?
- e) What do you understand by 'coral banks'?

*[Turn over]*2. Answer any **three** of the following questions:

2×3=6

- a) Mention ecological effects of salinity on sea water.
- b) How kinetic energy in the ocean water is generated?
- c) Classify atoll.
- d) What is meant by 'terrigenous deposits'?
- e) What do you understand by 'Pycnocline'?

3. Answer any **one** of the following questions:

6×1=6

- a) Elucidate the factors controlling oceanic salinity.
- b) Explain the origin of the continental shelves.

4. Answer any **one** of the following questions:

10×1=10

- a) Critically evaluate the theories of the origin of coral reefs.
- b) Give an account of the dynamics of ocean currents of the Indian Ocean.

GROUP-B

(RS / GIS)

(Marks : 50)

5. Answer any **two** of the following questions:

1×2=2

- a) What is RBV?
- b) What is ERTS?
- c) What is MSS?
- d) What is NRSA?

6. Answer any **five** of the following questions:

2×5=10

- a) Differentiate GIS from CAC.
- b) What is meant by the space segment of GPS?
- c) What do you understand by LISS?
- d) What is the difference between a FCC and standard FCC?
- e) Distinguish between Whisk broom and Push broom scanner.
- f) Justify the requirement for testing stereoscopic vision.
- g) What is a 'diffuse reflector'?
- h) What is 'relief displacement'?

7. Answer any **three** of the following questions:

6×3=18

- a) Describe the importance of remote sensing in water resource management.
- b) Elucidate the role of RS and GIS in modern Cartography.
- c) Distinguish between Raster and Vector data structure with necessary illustrations.
- d) Bring out the incidence of parallax in a stereopair of aerial photographs with illustration.
- e) Explain how aerial photographs are taken.

8. Answer any **two** of the following questions:

10×2=20

- a) Explain data storage and data manipulation in GIS domain.
- b) Analyse the role of RS and GIS in fishing, forestry and agriculture.
- c) Explain Remote Sensing in detail and make a comparison between LANDSAT and SPOT.
- d) Describe the function of any five photo interpretation keys.