

136(Sc)NS

UG-II/Geog.-IV(H)/NS/Supple/20

2020

**GEOGRAPHY**

[HONOURS]

**Paper : IV**

[NEW 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**

**(Climatology)**

**[Marks : 35]**

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

1×3=3

- a) What do you mean by 'hygroscopic nuclei'?
- b) What is 'pressure gradient'?
- c) What is 'Jet maxima'?
- d) What is 'Chinook'?
- e) Define thermal anomaly.

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

2×5=10

- a) What is 'occlusion'?

- b) Differentiate cyclone from anti-cyclone.
- c) Define 'Coriolis Force'.
- d) What is 'Horse Latitude'?
- e) What is 'Typhoon'?
- f) What do you mean by 'Burst of Monsoon'?
- g) What is 'Adiabatic Lapse Rate'?
- h) Distinguish between 'Katabatic' and 'Anabatic' wind?

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

6×2=12

- a) Explain the influence of jet stream on India.
- b) Bring out the relationship of pressure belts with planetary wind system of the world.
- c) Outline the factors controlling insolation.

4. Answer any **one** of the following: 10×1=10

- a) Classify air masses on the basis of their origin.
- b) Give an outline of the climatic classification after Koppen mentioning its merits and demerits.

**GROUP-B**

**(Hydrology)**

**[Marks : 20]**

5. Answer any **two** of the following questions: 1×2=2

- a) Define 'hydrograph'.
- b) What is aquifer?

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- c) What do you mean by 'seepage'?
- d) What is 'evapotranspiration'?
6. Answer any **one** question of the following: 2×1=2
- a) Define 'run off'.
- b) What do you mean by FMD in run off efficiency study?
- c) What do you mean by 'vados'?
7. Answer any **one** of the following: 6×1=6
- a) Bring out the controlling factors of infiltration.
- b) Analyse the impact of global warming on global hydrological cycle.
8. Answer any **one** of the following: 10×1=10
- a) Explain the processes of storage and movement of ground water.
- b) Elaborate the content of hydrology with its relevance in geography.

**GROUP-C**

**(Oceanography)**

**[Marks : 20]**

9. Answer any **two** of the following: 1×2=2
- a) What is 'Guyot'?
- b) What do you understand by 'Sargasso Sea'?

- c) What is known as OTEG?
- d) What is 'ooze'?
10. Answer any **one** of the following: 2×1=2
- a) Differentiate 'continental shelf' from 'continental slope'.
- b) What is 'thermocline'?
- c) Mention any two significant features of 'mid Atlantic ridge'.
11. Answer any **one** of the following questions: 6×1=6
- a) Explain the causes of temperature differentiation of the Arabian Sea and Red Sea.
- b) Illustrate the oceanic trenches of the Indian Ocean.
12. Answer any **one** of the following questions: 10×1=10
- a) Bring out the similarities and dissimilarities between the topography of Atlantic and the Pacific Ocean floors.
- b) Describe the nature and scope of Oceanography.
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