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3 (Sem-2/CBCS) GGY HC 2

2023

GEOGRAPHY

(Honours Core)

Paper : GGY-HC-2026

(Climatology and Biogeography)

Full Marks : 60

Time : Three hours

The figures in the margin indicate full marks for the questions.

1. Answer/Choose the correct option of the following : $1 \times 7 = 7$

(a) Name the weather forecasting satellite of India.

(b) Which of the following is a form of condensation ?

(i) Evaporation

(ii) Evapotranspiration

(iii) Frost

(iv) Precipitation

Contd.

- (c) The father of biogeography is
- H. Robinson
 - Hanns Reiter
 - Russel Wallace
 - Dr. Newbigin
- (d) In Wladimir Koppen's climatic classification, which alphabet is used to designate winterless climate ?
- A
 - B
 - C
 - D
- (e) The word ecosystem was first proposed by
- O. P. Odum
 - F. R. Fosberg
 - A. G. Tansley
 - None of the above
- (f) Which of the following is not an active soil-forming factor ?
- Climate
 - Animals
 - Plants
 - Parent material

(g) The line which joins the places having the same temperature is called

- isobar
- isotherm
- isohel
- isohyet

2. Write on the following in brief : $2 \times 4 = 8$

- Aerosols
- Pedology
- Adiabatic process
- Biodiversity hotspots

3. Answer **any three** from the following questions : $5 \times 3 = 15$

- Differentiate between climatology and meteorology.
- Write with suitable example about the various factors that control the temperature of a particular place.
- Define biogeography and write the significance in geographical study.

$1 + 4 = 5$

- (d) What are ecology and ecosystem ? Discuss the functioning of ecosystem with the help of local examples. 2+3=5
- (e) Draw a sketch map of major global pressure belt and mention their characteristics. 2+3=5

4. Answer **any three** of the following questions :
10×3=30

- (a) With a neat diagram, discuss the characteristics of different layers of the earth's atmosphere.
- (b) Discuss how Wladimir Koppen used letter symbols to represent climatic types of the different areas of the earth's surface.
- (c) What are the major plant communities ? Discuss the distribution and characteristics of coniferous forest in the world. 2+8=10
- (d) What is soil horizon ? Discuss the characteristics of different soil horizons. 2+8=10
- (e) Discuss the characteristics of tropical and extra tropical cyclones.
- (f) Discuss how Indian monsoon brings about seasonal reversal of wind direction and associate weather changes throughout the country.
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