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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 : 1×7=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
- (i) H. Robinson
 - (ii) Hanns Reiter
 - (iii) Russel Wallace
 - (iv) Dr. Newbigin
- (d) In Wladimir Koppen's climatic classification, which alphabet is used to designate winterless climate ?
- (i) A
 - (ii) B
 - (iii) C
 - (iv) D
- (e) The word ecosystem was first proposed by
- (i) O. P. Odum
 - (ii) F. R. Fosberg
 - (iii) A. G. Tansley
 - (iv) None of the above
- (f) Which of the following is not an active soil-forming factor ?
- (i) Climate
 - (ii) Animals
 - (iii) Plants
 - (iv) Parent material

- (g) The line which joins the places having the same temperature is called
- (i) isobar
 - (ii) isotherm
 - (iii) isohel
 - (iv) isohyet

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

- (a) Aerosols
- (b) Pedology
- (c) Adiabatic process
- (d) Biodiversity hotspots

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

- (a) Differentiate between climatology and meteorology.
- (b) Write with suitable example about the various factors that control the temperature of a particular place.
- (c) 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.