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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 : 2×4=8

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

3. Answer **any three** from the following questions : 5×3=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.