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3 (Sem-2/CBCS) GGY HC 2

2024

## 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 the following (*objective-type questions*) : 1×7=7

(a) The air that contains moisture to its full capacity is called

- (i) relative humidity
- (ii) specific humidity
- (iii) absolute humidity
- (iv) saturated air



Contd.

10 (b) Autotrophic level is

- (i) first-order trophic level
- (ii) second-order trophic level
- (iii) third-order trophic level
- (iv) None of the above

(c) The average atmospheric pressure at sea-level is

- (i) 1301.2 milibar
- (ii) 11302.2 milibar
- (iii) 1013.2 milibar
- (iv) 2103.1 milibar

(d) The plants which can survive at temperature less than 10°C are called

- (i) megatherms
- (ii) mesotherms
- (iii) microtherms
- (iv) None of the above

(e) Which of the following is not a permanent gas in the atmosphere?

- (i) Ozone
- (ii) Helium
- (iii) Xenon
- (iv) Argon

(f) Who first presented the concept of ecology?

- (i) Ratzel
- (ii) Humbolt
- (iii) Ernst Haeckel
- (iv) Wegener

(g) Which one of the following clouds is found at the highest elevation in the sky?

- (i) Cirrus
- (ii) Stratus
- (iii) Nimbus
- (iv) Cumulus

2. Answer the following very short answer-type questions :  $2 \times 4 = 8$

- (a) Cyclone
- (b) Convectional rainfall
- (c) Scope of biogeography
- (d) Indian monsoon

3. Answer the following short answer-type questions : (any three)  $5 \times 3 = 15$

- (a) Define climatology and write its significance.  $1 + 4 = 5$
- (b) What are the main characteristics of atmosphere?

- (c) Describe clearly the components of ecosystem.
- (d) What are the different levels of biodiversity?
- (e) What are the factors controlling temperature distribution on the surface of the earth?
4. Answer the following (*essay-type questions*):  
**(any three)** 10×3=30

(a) What is meant by heat budget? Explain in detail with the help of a diagram.

2+8=10

(b) Describe various soil types and their associated properties.

(c) Highlight the major conservational issues of the biodiversity in Assam.

(d) Discuss briefly the relationship between pressure and wind. Give diagram.

(e) What are the physical and biotic factors that affect the geographic dispersal of plants and animals?

(f) Critically examine the basis and scheme of climatic classification as proposed by Trewartha.

