Total number of printed pages–4

3 (Sem–2/CBCS) GGY HC 2

2023

Jawaharlal Nehru College Library
Estd.-1964
Boko, Dist. Kamrup

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 biography 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.
