



‘समानो मन्त्रः समितिः समानी’

UNIVERSITY OF NORTH BENGAL
B.A./B.Sc. Major 3rd Semester Examination, 2025

GEOGMAJ305-GEOGRAPHY

CLIMATOLOGY

Time Allotted: 2 Hours 30 Minutes

Full Marks: 60

The figures in the margin indicate full marks.

SECTION-I

1. Explain the following terms (any *five*): 2×5 = 10
- (a) Inversion of Temperature
 - (b) Jet Stream
 - (c) Geostrophic Wind
 - (d) Orographic Rainfall
 - (e) Chinook
 - (f) Occluded front
 - (g) Walker circulation
 - (h) Ozone Depletion.

SECTION-II

Answer any *four* questions

5×4 = 20

- 2. Explain the concept of “Latitudinal Heat Balance”. 5
- 3. Write a short note on “EL-Nino and La-Nina”. 5
- 4. Explain the causes and effects of Acid rain. 5
- 5. Write a short note on different layers of the Atmosphere. 5
- 6. Compare the characteristics of tropical and extra tropical cyclones. 5
- 7. Explain the factors influencing distribution of Insolation. 5

SECTION-III

Answer any *three* questions

10×3 = 30

- 8. Give an account of the origin, mechanism and characteristics of Temperate cyclone with suitable sketches. 10
- 9. Explain in detail the planetary wind system in relation to global pressure belts with the help of suitable diagrams. 10
- 10. Give an account of different types of fronts and the weather associated with them. 10
- 11. Classify the World climates according to Koppen. 10
- 12. Discuss the mechanisms and types of precipitation with suitable examples. 10

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সমাজে মন্ত্র: সন্নিহিত: সমানী

UNIVERSITY OF NORTH BENGAL
B.A./B.Sc. Major 3rd Semester Examination, 2025

GEOGMAJ306-GEOGRAPHY
POPULATION GEOGRAPHY

Time Allotted: 2 Hours 30 Minutes

Full Marks: 60

The figures in the margin indicate full marks.

SECTION-I

1. Answer any **five** questions from the following: 2×5 = 10
Define the following terms:
- (a) Agricultural Density
 - (b) Under Population
 - (c) Population Explosion
 - (d) Demographic Dividend
 - (e) Man-land Ratio
 - (f) Zero Population Growth
 - (g) TFR
 - (h) Emigration.

SECTION-II

Answer any **four** questions from the following 5×4 = 20

- 2. Differentiate between the concept of Over Population and Optimum Population. 5
- 3. Write a short note on Population Pyramid. 5
- 4. Explain the causes of rapid Indian population growth. 5
- 5. Briefly discuss the causes and consequences of population ageing with suitable examples. $2\frac{1}{2} + 2\frac{1}{2}$
- 6. Explain the 'push' and 'pull' factors of migration in context of Lee's Migration Model. $2\frac{1}{2} + 2\frac{1}{2}$
- 7. Briefly describe the National Population Policy (2000). 5

SECTION-III

Answer any **three** questions from the following 10×3 = 30

- 8. Discuss about the nature and scope of Populations Geography and its relation to demography. 5+5
- 9. Explain the various types of Population Density with suitable examples. 10
- 10. Critically analyze the various determinants and distribution of World Population growth with suitable data. 5+5
- 11. Explain the different determinants and measures of Mortality. 5+5
- 12. Explain about the Ravenstein's Laws of Migration with suitable examples. 10

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