

2021
GEOGRAPHY (Honours)
Seventh Paper (III-C)
B.A. Part-II (Theory)

Full Marks: 50

Time: Two Hours

Climatology

Paper III-C / Module 8

Section I (Descriptive)

The figures in the margin indicate full marks.

Answer any *one* questions.

- | | | |
|-----------------|--|----------------|
| 30 Marks | | 10×1=10 |
| 1. | Discuss in details about the composition and structure of earth's atmosphere based on temperature variation. | 10 |
| 2. | Make an assessment on horizontal distribution of pressure belts over the globe and its relation with wind system of the earth. | 7+3=10 |

Section II (Descriptive)

Answer any *four* questions.

- | | | |
|----|--|---------------|
| | | 5×4=20 |
| 3. | Briefly write down the <i>problem of ozone depletion</i> . | 5 |
| 4. | What is 'heat budget'? Explain with appropriate diagram. | 5 |
| 5. | Briefly explain about the features of <i>Summer Monsoon</i> and <i>Winter Monsoon</i> in Indian sub-continent. | 2.5+2.5=5 |
| 6. | Write short notes on 'Jet Stream' and 'Rossby Waves'. | 5 |
| 7. | Make a note, with suitable diagram(s), of types of precipitation. | 5 |
| 8. | Shortly narrate the merits and demerits of 'Ice Crystal Theory' on the topic of mechanism of precipitation. | 5 |
| 9. | What are the merits of Koppen's <i>World Climate Classification</i> ? | 5 |

Soil & Bio-Geography

Paper III-C / Module 9

Section I (Descriptive)

The figures in the margin indicate full marks.

Answer any **one** questions.

- | | |
|--|----------------|
| 20 Marks | 10×1=10 |
| 10. Make an assessment on soil profile development with special reference to 'Laterite'. | 10 |
| 11. Discuss in details about the <i>law of thermodynamics</i> and <i>energy flow</i> in earth's ecosystem. | 5+5=10 |

Section II (Descriptive)

Answer any **two** questions.

- | | |
|---|---------------|
| | 5×2=10 |
| 12. What do know about the factors of soil formation? | 5 |
| 13. Shortly discuss about the <i>wetland conservation</i> . | 5 |
| 14. What is the role of soil texture in enhancing soil fertility? | 5 |
| 15. Write a short note on bio-geochemical cycle of nitrogen. | 5 |
