

P- II (1+1+1)H/17 (N)

2017

GEOGRAPHY (Honours)

Paper Code : III-C

(New Syllabus)

Full Marks : 50

Time : Two Hours

The figures in the margin indicate full marks.

CLIMATOLOGY

Section - I

Answer any *one* question. $10 \times 1 = 10$

1. Discuss the structure and composition of atmosphere above ground surface upto stratopause with suitable illustration. 10
2. Critically discuss the world climatic classification after Koppen. 10

Section - II

Answer any *four* questions. $5 \times 4 = 20$

3. Write the role of altitude on determining the horizontal distribution of temperature on earth. 5
4. Explain the horizontal distribution of air pressure in the month of January. 5

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5. Explain briefly the process of ozone hole formation over Antarctica. 5
6. What is Greenhouse effect ? Discuss in brief the impact of Global Warming on weather and climate. 2+3=5
7. Discuss the weather conditions associated with 'Extra-Tropical Cyclone'. 5
8. How are the jet streams formed ? Discuss with suitable illustration. 5
9. Discuss the mechanism of the ice crystal theory to occur precipitation. 5
10. Write about the origin and impact of La-Nina. 5

Soil and Biogeography

Section - III

Answer any *one* question. 10×1=10

11. Write down the development of Laterite Soil Profile with suitable sketches. 10
12. Illustrate the causes and consequences of the loss of biodiversity with examples from North Bengal Forests. 10

Section - IV

Answer any *two* questions. 5×2=10

13. Write down the role of soil texture on agricultural process. 5

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14. A sample soil solution is tested as pH = 3.7. How do you interpret the characteristics of that soil. What will be the effective measures of culturing the particular soil areas ? 2+3
15. Explain in brief the Nitrogen cycle. 5
16. 'Wetlands are commonly referred to as nature's Kidneys' — justify the appropriateness of the comment. 5