2020

GEOGRAPHY (Honours)

Paper: 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.	10×1=10
1.	Define tropical cyclone. Briefly discuss the horizontal structure of a cyclone.	a tropical 2+8=10
2.	Give an account of global pressure belts. Explain how global prescontrols the planetary wind system.	sure belt 5+5=10
Section - II		
	Answer any four questions.	5×4=20
3.	Write a short note on inversion of temperature.	5
4.	Explain the causes that lead to the increase of green house gases.	5
5.	Write about the causes of ozone depletion.	5
6.	What is lapse rate? Distinguish between normal lapse rate and adiabarate.	etic lapse 5
7.	Write a short note on Jet Stream.	5

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	\mathfrak{I}	
9.	Explain the consequence of El-Nino on Indian Climatic scenario. 5	
10.	Give your critical view on Koppen's scheme of classification of World climate. 5	
SOIL AND BIOGEOGRAPHY		
Section - III		
	Answer any <i>one</i> question. $10 \times 1 = 10$	
11.	Assess the role of climate in soil forming processes. Explain the influence of soil texture on soil fertility. $5+5=10$	
12.	Define Ecosystem. Describe tropic level. Explain the function of ecosystem with the help of the law of thermodynamics. $2+3+5=10$	
	Section - IV	
	Answer any <i>two</i> questions. $5\times2=10$	
13.	Distinguish between the process of eluviation and illuviation. Explain the effect of illuviation process on 'B' horizon of a soil profile. $3+2=5$	
14.	Write a short note on soil pH. 5	
15.	Define Ecotone. What are the causes of Biodiversity loss. 2+3=5	
16.	What are the causes of wetland degradation?	

8. Explain the mechanism and formation of precipitation as per Ice Crystal Theory.

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