



বিদ্যাসাগর বিশ্ববিদ্যালয়
VIDYASAGAR UNIVERSITY
Question Paper

B.Sc. Honours Examinations 2021

(Under CBCS Pattern)

Semester - III

Subject : GEOGRAPHY

Paper : C 5-T

(Climatology)

Full Marks : 60

Time : 3 Hours

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

(Theory)

Group - A

A. Answer any **four** of the following questions :

12×4=48

1. Discuss the factors affecting Insolation and give reasons for its unequal distribution. 12
2. What is condensation? Outline the atmospheric processes that cause cooling and subsequent condensation of water vapour. 2+10
3. what is the index cycle of jet stream? Describe summer monsoon wind in relation to jet stream. 2+10

4. Explain the ice-crystal theory of precipitation. 12
5. Distinguish between normal lapse rate and adiabatic lapse rate. What are the factors influencing horizontal distribution of temperature? What do you mean by break of Indian monsoon? 4+6+2
6. Differentiate El Nino and La Nina. Describe the life cycle of mid-latitude cyclone and draw sketches to illustrate your answer. 4+8
7. Mention the salient features of major Greenhouse gases. "Global warming is a human induced climatic change"—Explain. Mention the predicted consequences of global warming. 4+8
8. Define air masses. How do they originate? Classify them and state the characteristics of all types of air masses. 2+4+6

Group - B

B. Answer any **six** of the following questions : 2×6=12

1. What do you mean by 'Hydroscopic Nuclei'?
 2. What is Occlusion
 3. Define 'Eckman Spiral'?
 4. What is humidity province?
 5. What is Solar Constant?
 6. What do you mean by 'Cs' type of climate, as per Koppen's classification?
 7. What is frontogenesis?
 8. What do you mean by walker circulation?
 9. What is Barotropic wind system?
 10. Write two impacts of ozone hole on ecosystem.
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