**FYUGP/Sem-4/GG-CE2**

# 2026
# (Regular)
# Geography (Core)
# Paper Code : GG-CE-4224
## Paper Name : Climatology and Oceanography

***Time : 2 hours*** ***Full Marks : 45***

*The figures in the margin indicate full marks for the questions.*

1. Choose the correct answer : 1×4=4

a) The headquarter of the Indian Meteorological Department (IMD) is located at-

i) Nagpur ii) Pune

iii) New Delhi iv) Hyderabad

b) The coldest layer of the earth's atmosphere is -

i) Stratosphere ii) Troposphere

iii) Ionosphere iv) Mesosphere

c) Subsidence theory of the origin of coral reefs was postulated by-

i) W. M. Davis ii) C. Darwin

iii) J. D. Dana iv) J. Murray

d) According to Koppen's climate classification, the 'Cs' type of climate represents to-

i) Savannah ii) Tundra

iii) Monsoon iv) Mediterranean

2. Answer the following questions : 2×3=6

a) What do you mean by 'lapse rate' ?

b) Write any two examples of local wind.

c) What are jet streams ?

3. Answer ***any three*** of the following questions : 5×3=15

a) Write an account of the composition of earth's atmosphere.

b) Distinguish between terrigenous ocean deposits and pelagic ocean deposits.

c) What do you mean by 'inversion of temperature' ? Mention the factors responsible for temperature inversion. 1+4=5

d) Briefly explain the mechanism associated with the origin of monsoon in the Indian sub-continent.

e) Discuss the meaning and scope of climatology.

f) Write in brief the different factors affecting global distribution of insolation.

4. Answer ***any two*** of the following questions : 10×2=20

a) What is ocean current and what are its different types ? Describe with example the various factors responsible for the occurrence of ocean currents. 3+7=10

b) With a neat diagram, explain different air pressure belts observed over the earth's surface and the planetary wind system associated with these air pressure belts. 4+6=10

c) Give an account of the bottom relief of the Indian Ocean. 10

d) Give a detailed account of classification of world climate according to Koppen. 10

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