

2022

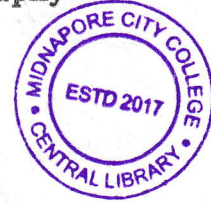
B.F.Sc. 1st Semester Examination

Meteorology, Climatology and Geography

PAPER — BFSC-102

Full Marks : 50

Time : 2 hours



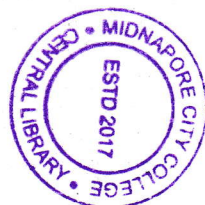
The figures in the right-hand margin indicate marks.

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

Illustrate the answers wherever necessary.

1. Answer *any ten* from the following questions :
2×10=20

- (a) What is albedo?
- (b) Define Insolation.
- (c) Differentiate weather from climate.
- (d) What do you mean by condensation?
- (e) What is tropopause?



(2)

- (j) Write a short note on atmospheric composition.
- (k) What is planetary wind?
- (l) What do you mean by horse latitude?
- (m) What are the forms of precipitation?
- (n) What do you mean by orographic rainfall?
- (o) What is Coriolis force?
- (p) Define relative humidity.
- (q) What is rain gauge?
- (r) Write down four major characteristics of cyclone.
- (s) What is Weather Research and Forecasting Model (WRF)?

2. Answer any six from the following questions :

5×6=30

- (a) Discuss the significance of terrestrial heat balance of the earth.
- (b) State the relationship between jet stream and Indian sub-continental monsoon.
- (c) Explain the mechanism of tropical cyclone in different stages.
- (d) Mention the importance of weather forecasting to natural hazard management.
- (e) Illustrate the vertical distribution of temperature.

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(Continued)

(3)

- (f) Tabulate the characteristics of different types of cloud and classifying them to any standard scheme.
- (g) How do you measure humidity and dew point?
- (h) Discuss about the layering of atmosphere according to temperature.
- (i) Explain the classical theory of monsoon genesis.
- (j) Discuss about different types of map projections.

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