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Brainware University
398, Ramkrishnapur Road, Barasat
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BRAINWARE UNIVERSITY

Term End Examination 2025-2026

Programme – B.Sc.(Ag)-Hons-2024

Course Name – Introductory Agro-meteorology & Climate Change

Course Code - CC-BAG477(T)

(Semester IV)

Full Marks : 50

Time : 2:0 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A

(Multiple Choice Type Question)

1 x 20=20

1. Choose the correct alternative from the following :

- (i) Choose the correct answer: the gaseous portion of the earth is called.
 - a) lithosphere
 - b) Hydrosphere
 - c) Atmosphere
 - d) Biosphere
- (ii) Show the correct answer: The world meteorological organization (WMO) day fall on _____.
 - a) 23rd march
 - b) 21st june
 - c) 21st march
 - d) 23rd december
- (iii) Infer among the following that is the study of totality of weather?
 - a) Meteorology
 - b) Phenology
 - c) Climatology
 - d) Hydrology
- (iv) Choose the correct answer: solid parts of the earth is called _____.
 - a) lithosphere
 - b) Hydrosphere
 - c) Atmosphere
 - d) Biosphere
- (v) Select the number of years weather data is required for the study of climatology.
 - a) 20
 - b) 30
 - c) 40
 - d) 50
- (vi) Monsoon word derived from which language? Show it
 - a) Latin
 - b) Greek
 - c) French
 - d) Arabian
- (vii) Point out the normal lapse rate.
 - a) 6.50C
 - b) 100C
 - c) 40C
 - d) 150C
- (viii) Select the correct date of occurrence of Apehelion
 - a) 4th June
 - b) 4th July

- c) 3rd January
(ix) Select the correct date of occurrence of Spring equinox
a) 21st March
c) 23rd September
- d) 3rd February
b) 21st June
d) 21st December
- (x) Select the correct date of occurrence of Summer solistice
a) 21st March
c) 23rd September
- b) 21st June
d) 21st December
- (xi) Point out the solar constant.
a) 1.49 cal/ cm²/ mint
c) 2.02 cal/ cm²/ mint
- b) 1.94 cal/ cm²/ mint
d) 3.03 cal/ cm²/ mint
- (xii) Explain the Sciophytes.
a) Shade loving plant
c) Rain loving plant
- b) Sun loving plant
d) None of these
- (xiii) Example of Long day plant
a) Wheat
c) Maize
- b) Rice
d) All of these
- (xiv) Point out the material used in maximum thermometer.
a) Mercury
c) Lead
- b) Alcohol
d) Water
- (xv) Point out the instrument used for measuring air pressure.
a) Barometer
c) Wind Vane
- b) Anemometer
d) Beaufort Scale
- (xvi) Point out the instrument used for measuring wind direction.
a) Barometer
c) Wind Vane
- b) Anemometer
d) Beaufort Scale
- (xvii) Point out the meaning of Isobar.
a) Equal atmospheric pressure
c) Equal amount of rainfall
- b) Equal wind velocity
d) Equal depth of rainfall
- (xviii) Identify the unit of Relative Humidity.
a) g/kg
c) percentage
- b) g/m³
d) g/cc
- (xix) Choose the correct option: Snow is
a) ice crystal resulting from sublimation
c) feathery deposit of ice
- b) moisture condensed in small drops
d) very thin fog
- (xx) Identify the cloud where thunderstorm occurs.
a) Cumulus
c) Cirrostratus
- b) Stratus
d) Cumulonimbus

Group-B

(Short Answer Type Questions)

2.5 x
10=25

2. Outline the different process of heat transfer with suitable example. (2.5)
3. Explain the term climatology. (2.5)
4. Explain the composition of atmosphere. (2.5)
5. Construct an idea on albedo. (2.5)
6. Categorize the plants based on the response to light intensities. (2.5)
7. Categorize the plants based on the response to day length. (2.5)
8. Construct a short note on normal lapse rate. (2.5)
9. Summarize the process cloud seeding. (2.5)

10. Classify the clouds according to International Cloud Atlas of World Meteorological Department. (2.5)
11. Explain the Plank's law. (2.5)

OR

Explain the Stefan-Boltzmann's law. (2.5)

Group-C

(Long Answer Type Questions)

5 x 1=5

12. Discuss about the different atmospheric layers with a suitable diagramme. (5)

OR

Categorize the different types of drought. (5)

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