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BRAINWARE UNIVERSITY

Term End Examination 2024-2025

Programme – B.Sc.(Ag)-Hons-2021/B.Sc.(Ag)-Hons-2022/B.Sc.(Ag)-Hons-2023

Course Name – Introductory Agro-meteorology & Climate Change/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 head quarter of india metrological department (IMD) is situated at ____.
- | | |
|------------|--------------|
| a) Bombay | b) Pune |
| c) Chennai | d) New delhi |
- (iii) Infer among the following that is the study of totality of weather?
- | | |
|----------------|--------------|
| a) Meteorology | b) Phenology |
| c) Climatology | d) Hydrology |
- (iv) Show the one which is the liquid parts of the earth?
- | | |
|----------------|---------------|
| a) Lithosphere | b) Biosphere |
| c) Hydrosphere | d) Atmosphere |
- (v) Choose the correct answer: The study of upper part of atmosphere above 35km is known as ____.
- | | |
|----------------|----------------|
| a) Hydrology | b) Meteorology |
| c) Climatology | d) Aeronomy |
- (vi) Choose the correct answer: the world meteorological organization (WMO) is located at ____.
- | | |
|-----------|--------------|
| a) London | b) Italy |
| c) Geneva | d) New delhi |
- (vii) Infer the name of father of agricultural meteorology of India?
- | | |
|------------------------|--------------------|
| a) Dr.B. Subhramanayan | b) Dr.H.S. Mavi |
| c) Dr.L.A. Ramdas | d) Dr. Swaminathan |

(viii) Select the number of years weather data is required for the study of climatology.

- | | |
|-------|-------|
| a) 20 | b) 30 |
| c) 40 | d) 50 |

(ix) Select the gas that constitutes 21% of total volume of the atmosphere?

- | | |
|------------------|-------------|
| a) Carbondioxide | b) ozone |
| c) oxygen | d) Nitrogen |

(x) Infer the layer of the atmosphere which is rich in ozone?

- | | |
|----------------|-----------------|
| a) Troposphere | b) Stratosphere |
| c) Mesosphere | d) Thermosphere |

(xi) Infer the height of troposphere on eqautor.

- | | |
|------------|-------------|
| a) 10-16KM | b) 16-50KM |
| c) 50-80KM | d) 80-120KM |

(xii) Choose the correct answer: Moisture holding capacity of atmosphere is mainly depend?

- | | |
|----------------|-------------|
| a) Pressure | b) Humidity |
| c) Temperature | d) Rainfall |

(xiii) Infer the layer of atmosphere is also called as "Seat of all photochemical reactions?"

- | | |
|----------------|-----------------|
| a) Troposphere | b) Stratosphere |
| c) Mesosphere | d) Thermosphere |

(xiv) Choose the correct answer: The gas which has important role in photosynthesis.

- | | |
|-----------|-------------------|
| a) Oxygen | b) Carbon dioxide |
| c) Ozone | d) Hydrogen |

(xv) Select the force that exist due to rotation of the earth.

- | | |
|---------------------|----------------------------|
| a) Frictional force | b) Centripetal force |
| c) Colilis Force | d) Pressure gradient force |

(xvi) Select the instrument that records continuous atmospheric pressure on map.

- | | |
|----------------|----------------------|
| a) Thermograph | b) Aneroid barometer |
| c) Barograph | d) Hydrograph |

(xvii) Infer the correct answer:Unit of pressure is expressed as_____.

- | | |
|-------------|-----------------|
| a) Milibar | b) Bar |
| c) mm of Hg | d) All of these |

(xviii) Infer the term which refers to the vertical flow of air mass?

- | | |
|--------------|------------------|
| a) Current | b) Convection |
| c) Advection | d) Gradient wind |

(xix) Infer the type of surface that has the lowest albedo?

- | | |
|---------------|---------------|
| a) Soil | b) Water |
| c) Vegetation | d) Fresh snow |

(xx) Select the correct option: wind vane is used to measure ____.

- | | |
|-------------------|------------------|
| a) Wind speed | b) Wind pressure |
| c) Wind direction | d) All of these |

Group-B

(Short Answer Type Questions)

2.5 x
10=25

- | | |
|--|-------|
| 2. Explain about Earths atmosphere and its composition. | (2.5) |
| 3. Classify the atmosphere based on vertical temperature difference. | (2.5) |
| 4. Illustrate the factors affecting wind. | (2.5) |
| 5. Explain about different types of wind in brief. | (2.5) |
| 6. Identify the differences between land breeze and sea breeze. | (2.5) |
| 7. Explain about land breeze. | (2.5) |
| 8. Explain different types of wind | (2.5) |

9. Discuss about the importance of humidity on crops. (2.5)
10. Discuss about the variation of atmospheric pressure (2.5)
11. The relationship between sun and Earth (2.5)

OR

Functions of monochromator in the instrumental methods of analyses (2.5)

Group-C

(Long Answer Type Questions)

5 x 1=5

12. Briefly explain the Scope of agricultural meteorology. (5)

OR

Compare between Climate and Weather. (5)

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