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## BRAINWARE UNIVERSITY

Term End Examination 2023

Programme – B.Sc.(Ag)-Hons-2021

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) Show the name of solid parts of the earth?  
a) lithosphere  
b) Hydrosphere  
c) Atmosphere  
d) Biosphere
- (ii) Among the given Infer where is the world meteorological organization (WMO) is located?  
a) London  
b) Italy  
c) Geneva  
d) New delhi
- (iii) Show the correct answer:The day to day physical state of atmosphere is called \_\_\_\_\_  
a) Macro-climate  
b) Climate  
c) Bio-climate  
d) Weather
- (iv) 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
- (v) Infer the correct answer:The study of lower part of atmosphere and its phenomena is also known as \_\_\_\_\_  
a) Geology  
b) Meteorology  
c) Climatology  
d) Geography
- (vi) Infer the number of years weather data is required for the study of climatology  
a) 20  
b) 30  
c) 40  
d) 50
- (vii) Show among given options the father of agricultural climatology?  
a) K.L.Penman  
b) Koppen  
c) Dr.L.A. Ramdas  
d) Dr.H.S Mavi
- (viii) Infer the gas that constitutes 21% of total volume of the atmosphere?  
a) Carbondioxide  
b) ozone  
c) oxygen  
d) Nitrogen

- (ix) Show the gas that constitutes 78% of total volume of the atmosphere?
  - a) Carbondioxide
  - b) Argon
  - c) Oxygen
  - d) Nitrogen
- (x) Infer the following layer of the atmosphere ozone is rich?
  - a) Troposphere
  - b) Stratosphere
  - c) Mesosphere
  - d) Thermosphere
- (xi) Show the following that is the most important of atmospheric constituents?
  - a) Carbondioxide
  - b) Water Vapour
  - c) Nitrogen
  - d) Dust
- (xii) Show the gaseous portion of the earth?
  - a) lithosphere
  - b) Hydrosphere
  - c) Atmosphere
  - d) Biosphere
- (xiii) Infer the name of the living portion of the earth?
  - a) Lithosphere
  - b) Hydrosphere
  - c) Atmosphere
  - d) Biosphere
- (xiv) Infer where is the head quarter of India metrological department (IMD) situated?
  - a) Bombay
  - b) Pune
  - c) Chennai
  - d) New delhi
- (xv) Show the correct answer: The world meteorological organization (WMO) day fall on \_\_\_\_\_
  - a) 23rd March
  - b) 21st June
  - c) 21st March
  - d) 23rd December
- (xvi) Infer among the following that is the study of totality of weather?
  - a) Meteorology
  - b) Phenology
  - c) Climatology
  - d) Hydrology
- (xvii) Infer the name of instantaneous physical state of atmosphere?
  - a) Weather
  - b) Meteorology
  - c) Climate
  - d) Climatology
- (xviii) Show the one which is the liquid parts of the earth?
  - a) Lithosphere
  - b) Biosphere
  - c) Hydrosphere
  - d) Atmosphere
- (xix) Show the correct answer: Global mean temperature has increased by \_\_\_\_\_
  - a) 0.5 degree celcius
  - b) 1.5 degree celcius
  - c) 1.0 degree celcius
  - d) 1.8 degree celcius
- (xx) Infer the correct answer: The study of upper part of atmosphere above 35km is known as \_\_\_\_\_
  - a) Hydrology
  - b) Meteorology
  - c) Climatology
  - d) Aeronomy

**Group-B**

(Short Answer Type Questions)

2.5 x 10=25

- 2. Explain the term Earth's atmosphere and its composition. (2.5)
- 3. Outline the structure of earth's atmosphere. (2.5)
- 4. Illustrate the factors affecting wind. (2.5)
- 5. Explain the types of wind. (2.5)
- 6. Summarize about land breeze. (2.5)
- 7. Outline the structure of earth's atmosphere. (2.5)
- 8. Summarize about sea breeze. (2.5)

9. Mention the importance weather elements you have studied and write briefly about any one (2.5)
10. Discuss briefly the weather forecasting (2.5)
11. The relationship between sun and Earth (2.5)

OR

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

**Group-C**

(Long Answer Type Questions)

5 x 1=5

12. Briefly explain on the importance of wind in agriculture (5)
- OR
- Describe pressure belts on the earth. (5)

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