



25365-41667



Library
Brainware University
398, Ramkrishnapur Road, Barasat
Kolkata, West Bengal-700125

BRAINWARE UNIVERSITY

Term End Examination 2025-2026

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

Course Name – Rain Fed Agriculture & Watershed Management/Rainfed Agriculture
& Watershed Management

Course Code - CC-BAG671 (T)/CC-BAG671(T)

(Semester VI)

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 correct option: Alley cropping is also known as-----.

- | | |
|---------------------------|--------------------|
| a) Hedgerow intercropping | b) Avenue cropping |
| c) BOTH A & B | d) NONE OF THESE |

(ii) Show the correct option: Cultivation of crops in regions with annual rainfall less than 750 mm is called as.

- | | |
|--------------------|------------------|
| a) Rainfed farming | b) Dry farming |
| c) Dryland farming | d) NONE OF THESE |

(iii) Show the correct option: Length of growing period between 75 and 120 days present for ____.

- | | |
|--------------------|------------------|
| a) Rainfed farming | b) Dry farming |
| c) Dryland farming | d) NONE OF THESE |

(iv) Show the correct option: Dryland Agriculture occupies----- % of cultivated area.

- | | |
|-------|-------|
| a) 60 | b) 40 |
| c) 75 | d) 50 |

(v) Show the correct option: Temporary moisture less condition in soil is called as-----.

- | | |
|------------|--------------|
| a) Drought | b) Famine |
| c) Aridity | d) Dry spell |

(vi) Show the correct option: Moisture Index (Im) value of -66.7 to -33.3 is for ____.

- | | |
|-----------------|--------------|
| a) Arid | b) Semi Arid |
| c) Humid Region | d) Per Humid |

(vii) Show the correct option: ICRISAT classified the Semi-arid tropics (SAT areas) in India by adopting.

- | | |
|------------------------------|--------------------------------|
| a) Trolls classification | b) Koppen's classification |
| c) Hargreaves classification | d) Thornthwaite classification |

- (viii) Show the correct option: Moisture availability index was given by?
 a) Trolls b) Koppen's
 c) Hargreaves d) Thornthwaite
- (ix) Show the correct option: 1st dry land research station was started in the year.
 a) 1920 b) 1923
 c) 1926 d) 1945
- (x) Show the correct option: ICRIAT was established in the year.
 a) 1972 b) 1985
 c) 1974 d) 1982
- (xi) Show the correct option: Dry land Research Station was established at____.
 a) Hyderabad b) Manjri
 c) Jodhpur d) Varanasi
- (xii) Show the correct option: Central Soil and Water Conservation Research and Training Institute is located at____.
 a) Cuttack b) Jhansi
 c) Hyderabad d) Dehradun
- (xiii) Show the correct option: Central Research Institute for Dry-land Agriculture (CRIDA) at____.
 a) Dehradun b) Vasad
 c) Hyderabad d) Raichur
- (xiv) Show the correct option: Central Arid Zone Research Institute (CAZRI) was established at____.
 a) Manjri b) Jodhpur
 c) Hyderabad d) Jhansi
- (xv) Show the correct option: Soil Conservation Research, Demonstration and Training Centre in Gujarat is located at_____
 a) Arnej b) Vasad
 c) Taraghadia d) Anand
- (xvi) Show the correct option: Average annual rainfall of the India is _____-mm.
 a) 816 b) 1175
 c) 1192 d) 1200
- (xvii) Show the correct option: India receives maximum rainfall from _____ monsoon winds.
 a) North-East b) South-East
 c) North-West d) South-West
- (xviii) Show the correct option: _____ is the single largest livelihood sources in India.
 a) Agriculture b) Industry
 c) Services d) All of these
- (xix) Show the correct option: The highest percentage of geographical area in India is covered under _____.
 a) High rainfall b) Medium rainfall
 c) Low rainfall d) Very low rainfall
- (xx) Show the correct option: The highest percentage of geographical area in India is covered under medium rainfall is _____.
 a) 13 b) 22
 c) 36 d) 42

Library
Brainware University
 398, Ramkrishnapur Road, Barasat
 Kolkata, West Bengal-700125

Group-B

(Short Answer Type Questions)

2.5 x
10=25

2. Briefly describe the Major constraints and problems in rainfed agriculture.

(2.5)

3. Define Permanent drought (2.5)
4. Explain the Invisible drought. (2.5)
5. Explain Agricultural drought. (2.5)
6. Define Physiological drought (2.5)
7. Define Water Harvesting. (2.5)
8. Explain the soil constraints in rainfed agriculture. (2.5)
9. Compare between dry farming and dryland farming. (2.5)
10. Explain the major characteristics of rainfed agriculture. (2.5)
11. Explain the principle of Agro-forestry system. (2.5)

OR

- Explain the different factors affecting water erosion (2.5)

Group-C

(Long Answer Type Questions)

5 x 1=5

12. Explain the concept of Rainfed Agriculture and write about its types in brief. (5)

OR

- Explain the importance of rainfed agriculture in India. (5)
