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Barasat, Kolkata - 700125**Term End Examination 2024-2025****Programme – B.Sc.(Ag)-Hons-2021/B.Sc.(Ag)-Hons-2022****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  
c) Hargreaves  
b) Koppen's  
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: ICRISAT 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 Gujrat 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

### Group-B

(Short Answer Type Questions)

2.5 x  
10=25

2. Define alternate land use system and explain its aim. (2.5)
3. Explain the global scenario of rainfed agriculture. (2.5)

4. Define alley cropping and discuss its advantages. (2.5)
5. Explain about the rainfall distribution pattern in India. (2.5)
6. Define ley cropping. (2.5)
7. Briefly describe the Major constraints and problems in rainfed agriculture. (2.5)
8. Explain the principle of Agro-forestry system. (2.5)
9. Explain the aberrations or vagaries of monsoon. (2.5)
10. Explain Invisible drought (2.5)
11. Explain Agricultural drought. (2.5)

**OR**

Explain the way mitigating drought stress in plants. (2.5)

### **Group-C**

(Long Answer Type Questions)

5 x 1=5

12. Discuss about the contingency crop planning if dry spells occur immediately after sowing. (5)

**OR**

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

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