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## BRAINWARE UNIVERSITY

Term End Examination 2023

Programme – B.Sc.(Ag)-Hons-2021

Course Name – Farming System & Sustainable Agriculture

Course Code - CC-BAG402

( 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) Explain Farming System
  - a) Atomistic approach
  - b) Individual approach
  - c) Holistic approach
  - d) Both of these
- (ii) Explain the farming type where entire production is used for family consumption
  - a) Subsistence
  - b) Intensive
  - c) Extensive
  - d) mixed farming
- (iii) Explain the farming type which refers to the livestock production along with usual cultivated crops
  - a) Subsistence
  - b) commercial
  - c) Extensive
  - d) mixed farming
- (iv) Show the correct option: Combination of crop with rearing of livestock where more than 10% of its gross income must be from livestock activity is called as \_\_\_\_\_ farming
  - a) Specialized
  - b) Diversified
  - c) mixed
  - d) commercialized
- (v) Show the correct option: It refers to farming system in which land under vegetation is cleared by slash and burn method is called as \_\_\_\_\_ cultivation
  - a) Shifting
  - b) Taungya
  - c) Zabo
  - d) mixed
- (vi) Show the correct option: Sustainable agriculture is derives from word
  - a) Greek
  - b) Latin
  - c) Italic
  - d) none of the above
- (vii) Show the correct option: Agriculture production system comprising a set of farming practices adapted to the requirements of crops, whose farming and soil management techniques protect the soil from erosion and degradation is called as .....
  - a) Conservation agriculture
  - b) degraded agriculture
  - c) conventional agriculture
  - d) intensive agriculture

- (viii) Show the correct option: Use of ex-situ FYM/Composts is used in .....
- a) Conservation agriculture
  - b) degraded agriculture
  - c) conventional agriculture
  - d) intensive agriculture
- (ix) Show the correct option: Maintenance of diversity is possible in farming
- a) HEIA
  - b) LEISA
  - c) Both of these
  - d) None of these
- (x) Show the correct option: Which SF practice has the maximum area in India
- a) Mulching
  - b) Contour farming
  - c) Vermicomposting
  - d) Crop rotation
- (xi) Show the correct option: Which type of farming improves the soil fertility
- a) Dairy farming
  - b) Mushroom
  - c) vermicompost
  - d) all of the above
- (xii) Show the correct option: Culture of honeybees and their management is called as .....
- a) apiculture
  - b) sericulture
  - c) Vermiculture
  - d) none of the above
- (xiii) Show the correct option: Growing two or more crops on the same piece of land simultaneously with definite Row pattern is?
- a) Relay Cropping
  - b) Sequence Cropping
  - c) Intercropping
  - d) Mix Cropping
- (xiv) Show the correct option: Practice of combining mulberry cultivation, silkworm rearing and silk reeling is called as ...
- a) apiculture
  - b) sericulture
  - c) Vermiculture
  - d) none of the above
- (xv) Show the correct option: Summing the products of land area to each crop, multiplied by the actual duration of that crop divided by the total cultivated land times 365 days is called as.....
- a) Cultivated Land Utilization Index
  - b) resource use efficiency
  - c) land utilization index
  - d) none of the above
- (xvi) Show the correct option: Production system which avoids or largely excludes the use of synthetic compounded fertilizers, pesticides, growth regulators and livestock feed additives".
- a) Organic farming
  - b) natural farming
  - c) Nateuco Farming
  - d) All of these
- (xvii) Show the correct option: A farmer planted his 1 st crop Rice and after harvesting the crop, he introduced his 2 nd crop POTATO in to the field. This Type of cropping pattern is known as?
- a) Sequential
  - b) Relay
  - c) Mix
  - d) Differential
- (xviii) Show the correct option: A farmer planted his 1 st crop CORN and prior to harvesting corn, He planted his 2 nd crop WHEAT. This Type of Cropping pattern is known as?
- a) Sequential
  - b) Relay
  - c) Mix
  - d) Differential
- (xix) Show the correct option: Which type of Gas plant is constructed Underground?
- a) Fixed Dome type
  - b) Float Type
  - c) Either of them
  - d) None of these
- (xx) Show the correct option: Cropping system which involve the raising of crops, animals and or trees is called
- a) Mixed cropping
  - b) Multiple cropping
  - c) Intercropping
  - d) All of these

**Group-B**

(Short Answer Type Questions)

2.5 x  
10=25

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| 2. Explain the Advantages of Sustainable Agriculture | (2.5) |
| 3. Discuss about carbon sequestration                | (2.5) |
| 4. Simplify the term Regenerative agriculture        | (2.5) |
| 5. Explain the term Shifting cultivation             | (2.5) |
| 6. Illustrate the definition of Cropping system      | (2.5) |
| 7. Explain the term Intercropping system             | (2.5) |
| 8. Explain the term multistoried cropping            | (2.5) |
| 9. Explain the term alley cropping                   | (2.5) |
| 10. Explain the cropping intensity index             | (2.5) |
| 11. Explain Natural farming                          | (2.5) |

**OR**

Simplify the term Integrated Farming system (2.5)

**Group-C**

(Long Answer Type Questions)

5 x 1=5

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| 12. Distinguish between HEIA and LEISA | (5) |
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**OR**

Discuss about the advantages of IFS (5)