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BRAINWARE UNIVERSITY

Term End Examination 2024-2025
Programme – B.Sc.(FND)-Hons-2023
Course Name – Indian Agriculture
Course Code - BFD40201
(Semester IV)

Full Marks : 60

Time : 2:30 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 15=15

1. Choose the correct alternative from the following :

- (i) Name which river was central to the Indus Valley Civilization?
 - a) Ganges
 - b) Nile
 - c) Indus
 - d) Amazon
- (ii) Select the type of plough was used by the Harappans?
 - a) Iron plough
 - b) Wooden plough
 - c) Bronze plough
 - d) Steel plough
- (iii) Indicate which of the following texts mentions over 750 medicinal plant species?
 - a) Rigveda
 - b) Susruta Samhita
 - c) Charaka Samhita
 - d) Agni Purana
- (iv) Classify the tools used by Indus Valley farmers based on their function.
 - a) Plows and sickles for planting, granaries for storage
 - b) Irrigation tools for harvesting, plows for storage
 - c) Sickle for building, granaries for cultivation
 - d) Plows for storage, granaries for planting
- (v) Label in the Ramayana, what is the significance of agriculture and irrigation for the kingdom of Ayodhya?
 - a) It was the primary source of wealth for the kingdom
 - b) It was a symbol of Lord Rama's divine powers
 - c) It was a source of spiritual enlightenment
 - d) It was important for maintaining peace during war
- (vi) Name which deity is associated with ensuring good agricultural harvests through the control of rain and irrigation In ancient Indian texts like the Ramayana?
 - a) Lord Vishnu
 - b) Lord Indra
 - c) Lord Shiva
 - d) Lord Brahma
- (vii) Which of the following is an example of traditional technical knowledge used in ancient Indian horticulture?
 - a) Use of hybrid seeds
 - b) Natural composting and vermiculture

- c) Chemical pesticides
(viii) Identify the term for the cultivation of plant cells, tissues, or organs on specially formulated nutrient media?
a) Micropropagation
b) Seed culture
c) Callus culture
d) Tissue culture
- (ix) Match which plant hormone is primarily responsible for root formation in tissue culture?
a) Cytokinin
b) Auxin
c) Gibberellin
d) Ethylene
- (x) Name in which year was the first Agricultural University established in India?
a) 1901
b) 1936
c) 1960
d) 1961
- (xi) Name the type of tissue culture commonly used for rapid multiplication of plants.
a) Seed culture
b) Embryo culture
c) Callus culture
d) Micropropagation
- (xii) According to the Indian Council of Agricultural Research (ICAR), which agricultural operation is the most highly mechanized?
a) Harvesting
b) Threshing
c) Seedbed preparation
d) Sowing
- (xiii) Choose which type of budgeting is used for making small changes to an existing farm plan?
a) Complete budgeting
b) Strategic budgeting
c) Partial budgeting
d) Full budgeting
- (xiv) Apply the scope of farm management.
a) It is focused on large-scale agricultural industries.
b) It deals with the management of public agricultural resources.
c) It focuses on the efficient allocation of resources at the level of individual farms.
d) It is concerned solely with crop production.
- (xv) Show the correct system of farming that involves government-owned farms managed by officials.
a) Cooperative Farming
b) Capitalistic Farming
c) State Farming
d) Peasant Farming

Group-B

(Short Answer Type Questions)

3 x 5=15

2. Describe the primary agricultural techniques used by the Indus Valley Civilization? (3)
3. Explain the role of irrigation in the agriculture of the Indus Valley Civilization. (3)
4. Explain about the civilization associated with early cotton cultivation in India? (3)
5. Explain how vegetative reproduction differs from asexual reproduction (3)
6. Express farm management. (3)

OR

Express the Law of Variable Proportions.

(3)

Group-C

(Long Answer Type Questions)

5 x 6=30

7. Justify what are the origins of spices in India, and how did they influence global trade? (5)
8. Plan what are the immediate and long-term goals of farm planning, and how do they contribute to maximizing net income? (5)
9. State the role of genetic engineering in modern plant breeding and how the application of biotechnology might address future challenges in crop production. (5)

10. Illustrate the genetic consequences of cross-pollination and its contribution to heterozygosity and the elimination of undesirable recessive traits in crops. (5)
11. Identify the main crops grown during the Mauryan period and explain how the irrigation systems and agricultural techniques of the time helped increase productivity. (5)
12. Conclude the role of women in agriculture during Vedic Period. (5)

OR

Predict the role of agriculture in the Ramayana and Mahabharata. (5)

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