

19. (a) Describe the needs and benefits of micro organism in farming system.

Or

- (b) Write a short notes on pest and disease management or plant production.
20. (a) Write an account on concept and Environmental factor of sustainable Agriculture.

Or

- (b) Write a short notes on common traits of Indigenous farming.

SECTION C — ($3 \times 10 = 30$)

Answer any THREE out of five questions.

21. Describe the permaculture and zero budget farming.
22. Explain about the benefits, significance and application of bio-fertilizer.
23. Give a detailed account on methods of increasing productivity and fertility of soil.
24. Describe in detail about Seed, Seedling and Soil treatment measures.
25. Describe in detail about the economic and ecological aspects of Agriculture.

S.No. 6137

P 22 BTVAC 1

(For candidates admitted from 2022–2023 onwards)

M.Sc. DEGREE EXAMINATION, NOVEMBER 2023.

Part III — Biotechnology — Value Added Course

ORGANIC FARMING

Time : Three hours

Maximum : 75 marks

SECTION A — (20 marks)

Answer ALL questions

- I. (A) Multiple Choice questions. ($5 \times 1 = 5$)
1. Organic farming term was firstly coined by north _____ in 1946.
- (a) Johanson (b) Bourne
- (c) Albert (d) Fredrick
2. Which of the following is not the objective of farming system?
- (a) Saving Energy
- (b) Fodder Requirement
- (c) Input Use Efficiency
- (d) Risk a version

3. Which of the following is not a type of manure?
 - (a) Farmyard manure
 - (b) Compost manure
 - (c) Platinum manure
 - (d) Green manure
4. Recycling of waste & residues of Farming system.
 - (a) Component (b) Objective
 - (c) Principle (d) Advantage
5. Soil potentiality can be increased by
 - (a) Inorganic Fertilizers
 - (b) Organic
 - (c) Intensified Irrigation
 - (d) All of the above

(B) Fill in the blanks (5 × 1 = 5)
6. Transformation of raw organic matter into humus is called _____
7. First commercial vegetable seed production unit in India was established in 1942 at _____
8. New seed police was launched in _____
9. Blotting describes _____ of nucleic acids.
10. The major reasons for Multiple Cropping are _____

- II. Descriptive type questions. (5 × 2 = 10)
- Define the following :
11. Crop rotation
12. Bulky organic manures
13. Dry land farming system
14. Lampricide
15. Indigenous farming

SECTION B — (5 × 5 = 25)

Answer ALL questions, choosing either (a) or (b).

16. (a) Describe the green revolution of organic farming.
- Or
- (b) Explain about natural and biodynamic farming.
17. (a) Write a short note on vermicomposting.
- Or
- (b) Explain about the green leaf manures.
18. (a) Describe the soil formation, composition and its characteristics.
- Or
- (b) Write the types of soil and reclamation of farming system.