

(6 pages)

S.No. 6202

P 22 BOE 3B

(For candidates admitted from 2022–2023 onwards)

M.Sc. DEGREE EXAMINATION, NOVEMBER 2023

Botany— Elective

ORGANIC FORMING

Time : Three hours

Maximum : 75 marks

SECTION A — (20 marks)

Answer ALL questions

- I. (A) Multiple choice questions: (5 × 1 = 5)
1. What is the full form of IFOAM?
- (a) International Federation of Organic Agriculture Movements.
- (b) Indian Federation of Organic Agriculture Movements.
- (c) Italian Federation of Organic Agriculture Movements
- (d) None of the above.

2. This chemical fertilizer is essential for better rhizobial nitrogen fixation
- (a) Calcium (b) potassium
- (c) sodium (d) phosphorus
3. Which of the following is a pair of biofertilizers?
- (a) *Salmonella* and *E.coli*
- (b) *Rhizobium* and grasses
- (c) *Nostoc* and legume
- (d) *Azolla* and BGA
4. Which of the following is an endomycorrhiza?
- (a) *Rhizobium* (b) *Agaricus*
- (c) *Glomus* (d) *Nostoc*
5. Which of the following species is most stable in Indian conditions?
- (a) *Perionyx* (b) *Epifilis*
- (c) *Endogens* (d) *Aneciques*

(B) Fill in the blanks : (5 × 1 = 5)

6. Flooding-a worldwide crop husbandry method of controlling weeds in \_\_\_\_\_
7. The main crop is called \_\_\_\_\_ and \_\_\_\_\_ are fungal diseases of wheat.
8. \_\_\_\_\_ manure is produced by decomposition of dead plants and animal wastes.
9. The biofertilizer used as a supplementary food for the cattle, especially for milking bovines is \_\_\_\_\_
10. The moisture level required for vermicomposting should be between \_\_\_\_\_

II. Write short note about the following topics:  
(5 × 2 = 10)

11. Explain Weed management.
12. Define Pesticide.
13. Expand and define urban compost.
14. Write a note on symbiotic.
15. Name any of the two biopesticides.

SECTION B — (5 × 5 = 25)

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

16. (a) Write down the role of organic farming for sustainable agricultural production.

Or

- (b) Give a short description of cultural methods for weed control.

17. (a) Elaborate important organic source for nutrient management.

Or

- (b) What are the major problems in promoting Organic agriculture?

18. (a) Explain different sources of nutrients for organic agriculture.

Or

- (b) Write down the role of cyanobacteria inorganic farming for sustainable agricultural production.

19. (a) Briefly explain "nitrogen fixing" with at least two examples each.

Or

- (b) Define biofertilizer. Give a detailed account of three biofertilizers.
20. (a) Elaborate the integrated control measures for diseases and pests in organic farming.

Or

- (b) Define vermicompost? Give a detailed account of vermiculite and vermiwash.

SECTION C — (3 × 10 = 30)

Answer any THREE questions.

21. Elaborate the components of organic farming. What are the benefits of organic farming?
22. Write the neem formulations for disease and pest management in organic farming.
23. Elaborate the integrated control measures for diseases and pests in organic farming.

24. Write a brief note on bio fertilizers and list out all the biofertilizers.

25. Explain the process and precautions in vermicomposting.
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