

(8 pages)

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Code No. : 5527

Sub. Code : WBOE 41

M.Sc. (CBCS) DEGREE EXAMINATION, APRIL 2025.

Fourth Semester

Botany

Elective VI – ORGANIC FARMING

(For those who joined in July 2023 onwards)

Time : Three hours

Maximum : 75 marks

PART A — (15 × 1 = 15 marks)

Answer ALL questions.

Choose the correct answer :

1. What is the primary significance of organic farming?
  - (a) increased crop yield
  - (b) improved soil fertility and ecosystem health
  - (c) reduced water usage
  - (d) increased use of synthetic fertilizers

2. Which of the following is a type of organic farming?
  - (a) Monoculture farming
  - (b) Polyculture farming
  - (c) Hydroponic farming
  - (d) Integrated Pest Management (IPM) farming
3. Which type of organic farming involves the use of animals to control pests and diseases?
  - (a) permaculture
  - (b) biodynamic farming
  - (c) regenerative agriculture
  - (d) integrated Organic Farming
4. What is the primary purpose of using manure in organic farming?
  - (a) To control pests and diseases
  - (b) To improve soil structure and fertility
  - (c) To increase crop yield
  - (d) To reduce water usage

5. Which of the following is a characteristic of compost?

- (a) High nitrogen content
- (b) Low carbon-to-nitrogen ratio
- (c) Presence of weed seeds
- (d) High organic matter content

6. Which method of composting involves piling organic materials in a heap and allowing them to decompose?

- (a) Vermicomposting
- (b) Aerobic composting
- (c) Anaerobic composting
- (d) Windrow composting

7. Which of the following is a land management practice in organic farming?

- (a) Monoculture farming
- (b) Crop rotation
- (c) Intensive tillage
- (d) Use of synthetic fertilizers

8. Which of the following is a water management practice in organic farming?

- (a) Flood irrigation
- (b) Drip irrigation
- (c) Sprinkler irrigation
- (d) All of the above

9. Which of the following is an organic method for managing insect pests?

- (a) Use of synthetic pesticides
- (b) Introduction of beneficial insects
- (c) Use of genetically modified organisms (GMOs)
- (d) Use of chemical traps

10. Which of the following is a requirement for processing organic produce?

- (a) Use of synthetic preservatives
- (b) Use of organic certification logo
- (c) Separation from conventional produce
- (d) Use of irradiation

11. What information must be included on the label of organic produce?  
(a) Name of the farmer  
(b) Name of the certification agency  
(c) Ingredients and nutritional information  
(d) All of the above
12. Which of the following is a recommended storage practice for organic produce?  
(a) Storage in airtight containers  
(b) Storage in direct sunlight  
(c) Storage at high temperatures  
(d) Storage in a cool, dry place
13. Which of the following is a type of certification for organic produce?  
(a) USDA Organic  
(b) EU Organic  
(c) Fairtrade Certification  
(d) All of the above
14. What is a requirement for packaging organic produce?  
(a) Use of synthetic materials  
(b) Use of biodegradable materials  
(c) Use of recyclable materials  
(d) All of the above

15. Which of the following is a handling practice required for maintaining organic quality control standards?  
(a) Handling produce with bare hands  
(b) Washing produce with chlorinated water  
(c) Storing produce in a clean, dry environment  
(d) Transporting produce in open vehicles

PART B — (5 × 4 = 20 marks)

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

Each answer should not exceed 250 words.

16. (a) Elaborate on the scope of organic farming in India.  
Or  
(b) Briefly discuss about NPOP
17. (a) Can you brief about vermicompost.  
Or  
(b) Critically comment on harmful effects of chemical fertilizers.
18. (a) Elaborate on weed management in organic farming.  
Or  
(b) Discuss about organic pest control methods.

19. (a) Give a brief note on processing of organic products.

Or

(b) Write short notes on post harvest disease management.

20. (a) Can you explain about export of organic products.

Or

(b) List the process involved in certification of organic products.

PART C — (5 × 8 = 40 marks)

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

Each Answer should not exceed 600 words.

21. (a) Discuss about dryland agronomy.

Or

(b) Elaborate on types of organic farming.

22. (a) Explain about green manuring.

Or

(b) Enumerate on the quality parameters of organic manure.

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23. (a) Briefly discuss about the land management in organic farming.

Or

(b) Critically comment on biocontrol agents.

24. (a) Explain in detail about storage of organic produce.

Or

(b) Elaborate on post harvest pest management.

25. (a) Write in detail about the grading of organic products.

Or

(b) Briefly discuss about marketing of organic products.

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