

Faculty of Agriculture

End Semester Examination May 2025

AG3CO50 Principles of Organic Farming

Programme	:	B. Sc. (Hons.)	Branch/Specialisation	:	AG
Duration	:	3 hours	Maximum Marks	:	50

Note: All questions are compulsory. Internal choices, if any, are indicated. Assume suitable data if necessary.

Notations and symbols have their usual meaning.

Section 1 (Answer all question(s))				Marks CO BL
Q1. Who is known as the father of organic farming?				1 1 1
<input type="radio"/> Norman Borlaug	<input checked="" type="radio"/> Sir Albert Howard			
<input type="radio"/> Rachel Carson	<input type="radio"/> George Washington Carver			
Q2. What is the main objective of organic farming?				1 1 2
<input type="radio"/> To increase chemical pesticide use	<input checked="" type="radio"/> To enhance soil health and biodiversity			
<input type="radio"/> To reduce crop yields	<input type="radio"/> To promote monoculture farming			
Q3. Which of the following is an example of edible oilcake?				1 2 1
<input type="radio"/> Mustard cake	<input checked="" type="radio"/> Groundnut cake			
<input type="radio"/> Cottonseed cake	<input type="radio"/> Castor cake			
Q4. What is the main purpose of bio-fertilizers in organic farming?				1 2 2
<input type="radio"/> To increase pesticide use	<input checked="" type="radio"/> To enhance soil fertility with beneficial microorganisms			
<input type="radio"/> To use synthetic chemicals	<input type="radio"/> To make soil acidic			
Q5. Crop rotation is used in organic farming primarily to _____.				1 3 2
<input type="radio"/> Increase chemical pesticide use	<input type="radio"/> Reduce soil fertility			
<input checked="" type="radio"/> Break pest and disease cycles	<input type="radio"/> Increase weed growth			
Q6. Companion planting helps in pest management by _____.				1 3 1
<input checked="" type="radio"/> Attracting beneficial insects	<input type="radio"/> Increasing the need for synthetic pesticides			
<input type="radio"/> Depleting soil nutrients	<input type="radio"/> Increasing pest populations			
Q7. Which one of the following logos is used to certify organic products under NPOP?				1 4 1
<input type="radio"/> FSSAI logo	<input checked="" type="radio"/> India Organic logo			
<input type="radio"/> Green Leaf logo	<input type="radio"/> Agmark logo			
Q8. Which agency is responsible for monitoring the implementation of NPOP?				1 4 1
<input type="radio"/> Food Corporation of India	<input type="radio"/> Indian Council of Agricultural Research			
<input checked="" type="radio"/> Agricultural and Processed Food Products Export Development Authority	<input type="radio"/> Ministry of Environment			
Q9. Which technique is commonly used for land levelling in organic farming?				1 5 1
<input checked="" type="radio"/> Laser land levelling	<input type="radio"/> Deep ploughing			
<input type="radio"/> Random ploughing	<input type="radio"/> Chemical soil treatment			

Q10. What helps in selling organic products?

1 5 2

- Consumer awareness
- Use of chemical pesticides
- Limited availability
- High pesticide residues

Section 2 (Answer all question(s))

Q11. Define organic farming.

Marks CO BL
1 1 1

Rubric	Marks
Definition	1

Q12. Write in detail about the four principles of organic farming.

2 1 2

Rubric	Marks
principles of organic farming	2

Q13. (a) Discuss the differences between organic farming and conventional farming.

5 1 2

Rubric	Marks
One mark for each difference	5

(OR)

(b) Write a short note on:

- Rashtriya Krishi Vikas Yojana
- National Project on Organic Farming
- Zero Budget Natural Farming

Rubric	Marks
a) Rashtriya Krishi Vikas Yojana	1.5
b) National Project on Organic Farming	1.5
c) Zero Budget Natural Farming	2

Section 3 (Answer all question(s))

Q14. Define organic nutrient resources.

Marks CO BL
1 2 2

Rubric	Marks
Definition	1

Q15. Define green manures and mention their types.

3 2 1

Rubric	Marks
Definition	1
Types.	2

Q16. (a) What is the concept of organic ecosystem? Explain its essential components.

4 2 3

Rubric	Marks
Concept of organic ecosystem	2
Essential components.	2

(OR)

(b) What are organic manures? How are they classified? Explain each type briefly with examples.

Rubric	Marks
Organic manures	1
Classification	1
Explanation with Examples	2

Section 4 (Answer all question(s))

Q17. Define biological pest control with advantages.

Marks CO BL

2 3 1

Rubric	Marks
Definition	1
advantages	1

Q18. (a) Describe different weed management practices adopted in organic farming.

6 3 3

Rubric	Marks
weed management practices	6

(OR)

(b) Describe in detail the key factors needed to be considered while choosing crops and varieties for organic farming.

Rubric	Marks
key factors description in detail	6

Section 5 (Answer all question(s))

Q19. What are the major components of the operational structure of NPOP?

Marks CO BL

2 4 2

Rubric	Marks
major components	2

Q20. What is the role of the APEDA in NPOP?

2 4 2

Rubric	Marks
role of the APEDA in NPOP	2

Q21. (a) Describe the certification process under NPOP. What are the key steps involved in obtaining organic certification?

4 4 2

Rubric	Marks
Certification process under NPOP	2
Steps involved in obtaining organic certification	2

(OR)

(b) Discuss the major standards and guidelines prescribed under NPOP for organic farming.

Rubric	Marks
Major standards	2
Guidelines under NPOP for organic farming	2

Section 6 (Answer any 2 question(s))

Marks CO BL

Q22. What are the benefits of laser land levelling in organic farming?

4 5 2

Rubric	Marks
Benefits of laser land levelling	4

Q23. Describe the key principles followed in the processing of organic products.

4 5 2

Rubric	Marks
Principles followed in the processing of organic products.	4

Q24. What factors influence the marketability of organic products?

4 5 2

Rubric	Marks
Factors influence the marketability of organic products	4
