

KAMARAJ COLLEGE (Autonomous)

Accredited with A+ Grade by NAAC

(Affiliated to Manonmaniam Sundaranar University, Tirunelveli)

(3 Pages)

Reg. No:.....

Question Code: 26E00906

Course Code: 24USB011

UG Degree - End Semester Examinations, April 2026

First Semester

B.Sc., BOTANY

Organic Farming

(For those who joined in July 2024 onwards)

Time : 3Hours

Maximum : 75 Marks

PART - A (10 × 1 = 10 Marks)

Answer ALL Questions

Choose the correct answer :

CO:1 1. The pH of soil indicates its _____.

- K:2
- | | |
|---------------|---------------------------|
| (a) Texture | (b) Acidity or Alkalinity |
| (c) Fertility | (d) Moisture |

CO:1 2. Soil structure refers to _____.

- K:2
- | | |
|-----------------------------------|-------------------|
| (a) Particle size | (b) Soil color |
| (c) Arrangement of soil particles | (d) Soil moisture |

CO:2 3. Mixed cropping means

- K:1
- | | |
|--|-----------------------|
| (a) Growing one crop | (b) No cropping |
| (c) Growing two or more crops together | (d) Seasonal cropping |

CO:2 4. Organic farming is eco-friendly because it

- K:1
- | | |
|--------------------|---------------------------|
| (a) Pollutes soil | (b) Conserves environment |
| (c) Uses chemicals | (d) Reduces biodiversity |

CO:3 5. Mulching helps in

- K:2
- | | |
|------------------|------------------------|
| (a) Soil erosion | (b) Moisture retention |
| (c) Water loss | (d) Pest growth |

CO:3 6. Cow dung is

- K:1
- | | |
|-------------------------|--------------------|
| (a) Inorganic manure | (b) Organic manure |
| (c) Chemical fertilizer | (d) Pesticide |

- CO:4 7. Nitrogen fixation converts
K:2 (a) Nitrogen to ammonia (b) Oxygen to nitrogen
(c) Carbon to nitrogen (d) Water to oxygen
- CO:4 8. Biofertilizers are eco-friendly because they
K:2 (a) Increase pollution (b) Destroy soil
(c) Reduce chemicals (d) Reduce crops
- CO:5 9. Agricultural waste includes
K:1 (a) Plastic (b) Crop residues
(c) Metals (d) Glass
- CO:5 10. Biocompost improves
K:2 (a) Soil fertility (b) Pollution
(c) Soil erosion (d) Waste production

PART - B (5 X 5 = 25 Marks)

Answer ALL Questions choosing either (a) or (b).

Answer should not exceed 250 words.

- CO:1 11. (a) Describe the chemical properties of soil

K:3

(OR)

- (b) Explain the consequences of land pollution on crops.

- CO:2 12. (a) Analyze the benefits of organic farming.

K:4

(OR)

- (b) Compare organic farming with conventional farming.

- CO:3 13. (a) Evaluate the use of oil cakes as manure.

K:4

(OR)

- (b) Analyze advantages of vermicompost over chemical fertilizers.

- CO:4 14. (a) Explain nitrogen fixation process.

K:3

(OR)

- (b) Explain the role of Azolla in agriculture.

- CO:5 15. (a) Analyze the importance of recycling waste.

K:4

(OR)

- (b) Evaluate recycling of agricultural waste.

PART - C (5 X 8 = 40 Marks)

Answer ALL Questions choosing either (a) or (b).

Answer should not exceed 500 words.

CO:1 16. (a) Discuss the impact of excessive fertilizers on soil health.

K:4

(OR)

(b) Analyze the effect of land pollution on food safety.

CO:2 17. (a) Evaluate the sustainability of integrated farming systems.

K:5

(OR)

(b) Assess the environmental benefits of sustainable agriculture.

CO:3 18. (a) Evaluate the role of Farm manures in crop production.

K:5

(OR)

(b) Suggest methods to improve compost quality.

CO:4 19. (a) Evaluate the effectiveness of different biofertilizers in improving soil fertility.

K:5

(OR)

(b) Critically analyze the contribution of cyanobacteria in nitrogen fixation.

CO:5 20. (a) Create a plan to convert municipal waste into useful products.

K:6

(OR)

(b) Propose a large-scale biocomposting project for urban areas.