

(6 pages)

Reg. No. : .....

**Code No. : 30538 E**

**Sub. Code : CSBO 32**

B.Sc. (CBCS) DEGREE EXAMINATION,  
NOVEMBER 2023.

Third Semester

Botany

Skill Based Core — ORGANIC FARMING

(For those who joined in July 2021 – 2022)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. Black soils are generally poor in

- (a) Calcium
- (b) Potash
- (c) Phosphorus
- (d) Lime

2. Which among the following is called whit alkali soil?

- (a) Alluvial soil
- (b) Yellow soil
- (c) Forest soil
- (d) Saline soil

3. Identify the odd man out

- (a) Farmyard manure
- (b) Poultry wastes
- (c) Fishery wastes
- (d) Industrial wastes

4. Which among the following is not present in cow dung?

- (a) Potassium                      (b) Nitrogen
- (c) Phosphorus                    (d) Magnesium

5. Microorganism act upon dead plants to produce

- (a) Manures
- (b) Humus
- (c) Clay
- (d) Fertilizers

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6. Most important function of mulching is  
 (a) Retention of moisture  
 (b) Prevention of water loss  
 (c) Prevention of soil loss  
 (d) All the above
7. *Azolla* is a  
 (a) Fern (b) Bacteria  
 (c) Fungi (d) Protozoa
8. Which of the following is used as a biofertilizer for soybean crop?  
 (a) *Nostoc* (b) *Azospirillum*  
 (c) *Rhizobium* (d) *Azotobacter*
9. The highly decomposed organic matter rich in minerals like nitrogen, phosphorus, and potassium, in particular, produced from the activity of earthworms is called  
 (a) Humus (b) Vermicompost  
 (c) Worm casting (d) Compost bedding

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10. Which of the following is false about vermicomposting?  
 (a) Worms population doubles in 90 days  
 (b) Worms eat double their body weight  
 (c) The wooden bin is best for vermicomposting  
 (d) Red worms are the best for vermicomposting

PART B — (5 × 5 = 25 marks)

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

Each answer should not exceed 250 words.

11. (a) Classify the soils based on texture.  
 Or  
 (b) Give an account of fertility of soil.
12. (a) Establish the utility of cow dung and cow urine as a fertilizer.  
 Or  
 (b) Highlight the importance of fishery waste as a manure.
13. (a) List down the methods of composting.  
 Or  
 (b) Identify the advantages of composting.

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14. (a) Bring out the importance of *Rhizobium*.

Or

- (b) Comment on the mass production of *Azolla*.

15. (a) Analyze the importance of vermicompost.

Or

- (b) How will you produce vermicompost by pit method?

PART C — (5 × 8 = 40 marks)

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

Each answer should not exceed 600 words.

16. (a) Discuss the formation of soil.

Or

- (b) How will you reclaim the acidic soil?

17. (a) What do you mean by Farmyard Manure?  
How are they useful in agriculture?

Or

- (b) Analyse the utility of poultry wastes.

18. (a) Elaborate the formation of humus.

Or

- (b) Describe mulching. Add a note on its advantages.

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19. (a) Establish the role of biofertilizers in agriculture.

Or

- (b) How will you produce *Rhizobium* on a mass scale?

20. (a) Discuss, in detail, the production of vermicompost by heap method.

Or

- (b) Examine the preparation and potential of *Panchagavya*.

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