

Reg. No. :

Code No. : 30787 E

Sub. Code : ESBO 11

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

First Semester

Botany — Main

Skill Enhancement Course — ORGANIC FARMING

(For those who joined in July 2023 onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. The study of soil science is known as
 - (a) Phycology
 - (b) Edaphology
 - (c) Cytology
 - (d) Ecology

2. Which of the following cause soil pollution?
 - (a) Heavy metals
 - (b) Industrial waste
 - (c) Pesticides
 - (d) All the above

3. Growing different types of crops together on the same field simultaneously is called
 - (a) Mixed cropping
 - (b) Crop rotation
 - (c) (a) and (b)
 - (d) None of the above
4. Practice of growing a series of different types of crops in the same area is called
 - (a) Crop rotation
 - (b) Life cycle
 - (c) (a) and (b)
 - (d) None of the above
5. Farmyard manure is
 - (a) Bone
 - (b) Cattle urine
 - (c) Cattle dung
 - (d) (b) and (c)
6. Which one of the following is a best green manure?
 - (a) Phyllanthus
 - (b) Sesbania
 - (c) Coleus
 - (d) Hibiscus
7. VAM is a
 - (a) Virus
 - (b) Bacteria
 - (c) Fungi
 - (d) Algae
8. Rhizobium is a _____ bacterium.
 - (a) Bacteria
 - (b) Fungi
 - (c) Virus
 - (d) None of these
9. Decomposition of wastes into manure by microbial process is called
 - (a) Land fill
 - (b) Composting
 - (c) Incineration
 - (d) None of the above

10. The burning or combustion of wastes is called
 - (a) Incineration
 - (b) Composting
 - (c) Land fill
 - (d) All the above

PART B — (5 × 5 = 25 marks)

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

Each answer should not exceed 250 words.

11. (a) List out the physical properties of soil.

Or

 (b) Narrate the effects of soil pollution.
12. (a) Write short notes on mixed cropping.

Or

 (b) Write short notes on crop rotation.
13. (a) Write notes on Farmyard manure.

Or

 (b) List out the importance of vermicompost.
14. (a) Highlight the importance of biofertilizers.

Or

 (b) Describe the importance of Azolla to the crops.
15. (a) Give a brief account on Biodegradation.

Or

 (b) Write notes on recycling of municipal wastes.

PART C — (5 × 8 = 40 marks)

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

Each answer should not exceed 600 words.

16. (a) Describe the chemical properties of soil.

Or

- (b) What is soil pollution? Write the causes and control measures of soil pollution.

17. (a) Explain sustainable agricultural management.

Or

- (b) What is organic farming? Write notes on basic concepts of organic farming.

18. (a) Explain green manuring.

Or

- (b) Write an elaborate note on mulching.

19. (a) Describe the production of VAM fungi.

Or

- (b) Write the steps involved in mass production of Rhizobium.

20. (a) Describe the recycling of agricultural wastes.

Or

- (b) How industrial wastes are recycled?