

(6 pages)

Reg. No. :

**Code No. : 10664 E Sub. Code : JSPB 3 B/
SSBO 3 B**

B.Sc. (CBCS) DEGREE EXAMINATION,
NOVEMBER 2020.

Third Semester

Plant – Biology and Plant Biotechnology/Botany – Main

Skill Based Subject – ORGANIC FARMING

(For those who joined in July 2016 onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL the questions.

Choose the correct answer :

1. White alkali soil is _____.
(a) Saline soil (b) Acidic soil
(c) Sodic soil (d) Saline sodic soil

2. Fertility of soil depends on
(a) Nutrients (b) Organic matter
(c) Minerals (d) All the above
3. Which one of the following is not a organic manure?
(a) Poultry waste (b) Piggery waste
(c) Cattle dung (d) VAM fungi
4. The bone meal manure is rich in
(a) Nitrogen (b) Carbon
(c) Sulphur (d) Phosphorus
5. Green manure provides _____ to the crops.
(a) N (b) P
(c) K (d) All the above
6. C : N ratio of best compost is
(a) 10: 1 (b) 20:1
(c) 25:1 (d) 30:1
7. Which of the following is a Nitrogen fixer?
(a) Pongamia (b) Rhizobium
(c) Azadiracta (d) None of the above

8. _____ fungus is used as biofertilizer.
- (a) Aspergillus (b) Pseudomonas
(c) Glomus (d) None of the above
9. Other name of vermi compost is _____.
(a) Worm humus (b) Worm manure
(c) Worm cost (d) All the above
10. Which of the following is the components of panchakavya?
(a) Cow milk (b) Cow urine
(c) Cow dung (d) All the above

PART B — ($5 \times 5 = 25$ marks)

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

Each answer should not exceed 250 words.

11. (a) Write notes on fertility of soil.

Or

- (b) Give an account on water holding capacity of soil.

12. (a) Explain the method of manure preparation from slaughter waste.

Or

- (b) Explain the method of manure preparation from fishery waste.

13. (a) Write notes on plant waste.

Or

- (b) Write the uses of compost manure.

14. (a) Give an account on application of Rhizobium.

Or

- (b) Write short notes on benefits of VAM fungi.

15. (a) What is vermi compost? Add notes on its importance.

Or

- (b) Explain the applications of panchagavya.

PART C — (5 × 8 = 40 marks)

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

Each answer should not exceed 600 words.

16. (a) Write an essay on soil profile.

Or

- (b) Explain in detail about water retentivity and aeration of soil.

17. (a) Explain the method of manure preparation from cow waste.

Or

- (b) Describe the method of manure preparation from piggery and poultry wastes.

18. (a) Write an essay on compost making.

Or

- (b) Discuss about the mulching.

19. (a) Give an account on mass production and application of Rhizobium.

Or

- (b) Write an essay on mass production of VAM fungi.

20. (a) Explain the method of vermi compost production.

Or

- (b) Describe how is panchagavya prepared?
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