(6 Pages) Reg. No.:....

Code No.: 30525 E Sub. Code: ASBO 32

B.Sc. (CBCS) DEGREE EXAMINATION, NOVEMBER 2021.

Third Semester

Botany — Main

Skill Based Subject — ORGANIC FARMING

(For those who joined in July 2020 onwards)

Time: Three hours Maximum: 75 marks

PART A — $(10 \times 1 = 10 \text{ marks})$

Answer ALL questions.

Choose the correct answer:

- 1. Which among the following phenomenon is not exhibited by soil colloidal particle?
 - (a) Plasticity
 - (b) Adhesion and cohesion
 - (c) Flocculation
 - (d) Sedimentation

	essential for plants?						
	(a)	Calcium	(b)	Molybdenum			
	(c)	Zinc	(d)	Sodium			
4.	Soil	Soil fertility is reduced due to					
	(a)	Over irrigation					
	(b)	Continuous cropping					
	(c)	Imbalanced use of fertilizers					
	(d)	Poor drainage					
5.	Composted manure is produced from						
	(a)	Farmyard manure and green manure					
	(b)	Farm refuse and	d hous	sehold refuse			
	(c)	Organic remains of biogas plants					

Rotten vegetables and animal refuse

(b)

(d)

Which of the following elements is almost non-

Mesophiles

Hygrophiles

Most of the soil organism is

Psychrophiles

Thermophiles

2.

3.

(a)

(c)

(d)

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	(a)	Minimize evaporation losses					
	(b)	Improving aeration					
	(c)	Improving drainage					
	(d) Removing weed						
7.	A water-fern, which is used as a green manure in rice fields is						
	(a)	Salvinia	(b)	Azolla			
	(c)	Pteridium	(d)	Gleichenia			
8.	Whi	Which of the following is a green manure?					
	(a)	Sesbania	(b)	Maize			
	(c)	Rice	(d)	Sorghum			
9.	Ver	Vermicomposting is done by					
	(a)	Fungus	(b)	Bacteria			
	(c)	Worms	(d)	Animals			
10.	Which among the following is not an ingredient of <i>Panchagavya?</i>						
	(a)	Cow dung	(b)	Cow urine			
	(c)	Milk	(d)	Butter			

6.

Soil mulch is useful in

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PART B — $(5 \times 5 = 25 \text{ marks})$

Answer ALL questions, choosing either (a) or (b). Each answer should not exceed 250 words.

11. (a) Describe the physical properties of the soil.

Or

- (b) Explain the water retention capacity of the soil.
- 12. (a) Give an account of farmyard manure.

Or

- (b) Establish the utility of green leaf manures.
- 13. (a) Explain the formation of humus.

Or

- (b) List down the advantages of composting.
- 14. (a) What is mean by biofertilizers? How are they useful?

Or

- (b) Explain the importance of biofertilizers.
- 15. (a) Explain the pit method of vermicomposting.

Or

(b) List down the applications of *Panchagavya*.

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[P.T.O]

PART C — $(5 \times 8 = 40 \text{ marks})$

Answer ALL questions choosing either (a) or (b). Each answer should not exceed 600 words.

16. (a) Write an essay on the types of soil.

Or

- (b) How will you reclamate acidic soil?
- 17. (a) Describe the properties of fishery wastes.

Or

- (b) Explain the properties of Poultry wastes.
- 18. (a) Discuss the various methods of composting.

Or

- (b) Analyse the practice of mulching.
- 19. (a) Critically analyse the mass cultivation of Rhizobium.

Or

(b) How will you produce Azolla on a large scale?

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20. (a) Discuss the heap method of vermicomposting.

Or

(b) How will you prepare Panchagavya?

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