A520 42		(c) 19 (d) 18
B.Sc. (CBCS) DEGREE EXAMINATION, NOVEMBER 2022.	3.	Which among the following is not a major reason for choosing earthworms for vermicomposting?
Fourth Semester		(a) Low incubation time
Zoology - Core		(b) Digestion rate
Skill Based Core — VERMITECHNOLOGY	i.	(c) Adaptability
(For those who joined in July 2017–2020)		(d) Low growth rate
Time: Three hours Maximum: 75 marks	4.	Which of the following is true about vermicompost?
PART A — $(10 \times 1 = 10 \text{ marks})$	v.	(a) vermicompost is red in colour
Answer ALL questions.		(b) vermicompost is black in colour
Choose the correct answer:	y	(c) vermicompost is brown in colour
1. The nephridia of earthworm without		(d) vermicompost is white in colour
nephrostomes are ———	5.	The moisture level required for vermicomposting should be between
(a) Integumentary (b) Pharyngeal		a serve was to the serve.
(c) Septal (d) Both (a) and (c)		(a) <30% (b) 40-50% (c) 70-80% (d) >90%
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Male genital aperture of earthworm is located in

(b)

14

the segment

(a) 13

	` '					
	(c)	25°C to 30°C	(d)	35°C to 40°C		
7.		ch of the follow	ing p	roducts can be used for	. •	
	(a)	cow dung	(b)	plant materials		
	(c)	animal wastes	(d)	all of the above		
8.	The com	following is posting	the	best worm used for		
	(a)	maggots	(b)	pink worms		
	(c)	red wigglers	(d)	all of the above		
9. The following raw material is used for preparing compost						
	(a)	cow dung	. •	*		
	(b)	weed biomass				
	(c)	dry straw and	leaves	s		
	(d)	all the above		*		
10.	Whi farm	Which organism is commonly known as friends of farmers?				
	(a)	cockroach	(b)	earthworm		

(d)

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housefly

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temperature

(b)

required

30°C to 35°C

6.

The

(a)

(c)

honey bee

maximum

20°C to 25°C

vermicomposting is

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 food habits of earthworm.

Or

- (b) Earthworm as farmer's friend Discuss.
- 12. (a) Explain any two South Indian Earthworm species in detail.

Or

- (b) Write a note on different types of earthworm.
- 13. (a) Describe heap method.

Or

- (b) Comment on tray method of composting.
- 14. (a) Summarize the uses of earthworms in land improvement.

Or

(b) Write down the medicinal value of earthworm meal.

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15. (a) Write an essay on compost marketing.

Or

(b) What are the financial support for vermicomposting? Discuss.

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) Explain digestive system of earth worm.

Or

- (b) Give a detailed account on life cycle of earthworm.
- 17. (a) Discuss the methods of collecting and preserving earthworm for composting.

Or

- (b) Explain North Indian species earthworms used in vermicomposting (any two).
- 18. (a) Discuss methods of vermicomposting.

. Or

(b) Summarize the changes during vermicomposting.

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19. (a) Discuss the role of earthworms in solid and sewage waste management.

Or

- (b) Earthworms as bioreactors Justify.
- 20. (a) Give a detailed account on large scale manufacture of vermicompost.

Or

(b) Explain chemical factors influencing earthworm activities.

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