· 00	te No. : 10641	E	Sı	ub. Code : SSZO 4 B ASZO 42	
70	(CBCS) DEGRE	E EXA	AMI:	NATION, APRIL 2022	
		rth S			
		ology -			
				MITECHNOLOGY	
				ly 2017 onwards)	
ma .	Three hours			Maximum: 75 marks	
	PART A —	(10 ×	1 =		
	Answer				
	pose the correct				
	rtain species of ste rapidly and articles by passing	ıragn	nent	ms can ingest organic them into much fine rough ————	
	gizzard		(b)	anus	
	mouth		(d)	buccal cavity	
··· ,	adrilus eugeniae i	s an e	xam	ple of	
	endogeic		(b)	epigeic	
	anecic	1	(d)	hydrogeic	
į a	intial benefits of v		opos	sting is	
	reducing pollution				
		mula lants plies	dis	sturbs root growth	
	some earthworn spreading, deve pathogens	n spe elopme	ecies ent	s have a role in of parasites and	
	surface dwelling oulling leaves ar ootted plants	eartl nd da	nwor mag	rms have habits of e some plants like	
i nr Stol	miwash is the — cost, the wash of medium and consculture.	the e	arth	watery extract of nworms present in a wonder-tonic in	
	eafy green colou	red			
	Ioney-brown colo	oured			
	lood red coloure	•			
	ky blue coloured				
er en	ound that the save was mainly du	ie to	sed phos	soil phosphatase sphate production	
ų	nicroorganisms	(b)	ea	rthworm	
	illipede	(d)	cei	ntipede	
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9.

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Name the culture of earthworm under controlled 3. condition in large is called as (a) Aquaculture Sericulture (c) Apiculture (d) Vermiculture Which one is South Indian species of earthworm 4. used in vermicomposting process? Perionyx excavatus (a) (b) $Pontoscolex\ corethrurus$ (c) Eisenia fetida $Eisenia\ Andrei$ Which of the following is not raw material 5. required for preparing composts? (a) Cow dung (b) Weed biomass (c) Dry straw and leaves (d) Plastic and glass The bedding for vermicomposting systems must be able to retain both moisture and providing a place for the worms to live. (a) air light (c) water (d) radiation

10. Select the financial agency to support vermiculture is

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(a) BERI

(b) KVB

(c) IOB

(d) SBI

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) Outline the classification of earthworms based on feeding behaviour/habits.

Or

- (b) Elucidate the female reproductive system of earthworm with neat diagram.
- 12. (a) Explain the various methods of culture of earthworm.

Or

(b) List out any two exotic cultivable species of earthworms used in vermicomposting.

13. (a) Comment on the term composting, vermicomposting, vermiculture and vermitechnology.

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- (b) Describe the various organic wate materials used for vermicomposting.
- 14. (a) Explain the procedure for preparation of vermiwash.

Or

- (b) "Vermicompost has many advantages over chemical fertilizers" Justify.
- 15. (a) Explain the interaction of earthworm with other organism particularly role of microbes in vermicomposting.

Or

(b) List out any five large scale manufacture of vemicompost in Tamilnadu.

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 the ecological types of earthworms with suitable examples.

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(b) Describe the different stages in life cycle of earthworm with illustration.

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17. (a) List out any five earthworms used for vermicomposting.

Or

- (b) Discuss the various methods of collection of earthworms.
- 18. (a) List out the requirements for successful production of vermicompost.

Or

- (b) Describe different methods of vermicomposting which you have studied.
- 19. (a) Explain the therapeutic (medical) values of earthworms giving reasons.

Or

- (b) Highlight the role of earthworm in solid waste management.
- 20. (a) Explain the any two financial agencies to support vermiculture.

Or

(b) How to harvest and packaging the vermicompost as final step in vermicomposting process?

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