

(6 pages)

**Reg. No. :** .....

**Code No. : 30721 E      Sub. Code : JSZO 4 B/  
SSZO 4 B**

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

Fourth Semester

Zoology

Skill Based Subject - VERMITECHNOLOGY

(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. The first body segment of earthworm is
  - (a) Pygidium
  - (b) Peristomium
  - (c) Prostomium
  - (d) Cytospme
2. In earthworm gizzard is found in
  - (a) 8<sup>th</sup> segment
  - (b) 8–13<sup>th</sup> segment
  - (c) 8–11<sup>th</sup> segment
  - (d) 27<sup>th</sup> segment

3. Earthworms which are seen on the surface are called
- (a) Epigeic                      (b) Anecic  
(c) Endogeic                      (d) Hygienic
4. The man who classified the earthworm species used in vermicomposting is
- (a) Savigny                      (b) Bouche  
(c) Switz                      (d) Marx
5. \_\_\_\_\_ is employed for rearing earthworms.
- (a) Bamboo tray                      (b) Apiary  
(c) Vermibox                      (d) Poultry form
6. pH of vermiculture is kept at
- (a) Near neutral                      (b) Alkaline  
(c) Acidic                      (d) Highly alkaline
7. Which of the following are not good ingredients to add to your compost pile?
- (a) Glass pieces                      (b) Iron  
(c) Grease                      (d) All of the above

8. Which one is known as Nature's Plough man?
- (a) Nereis (b) Leech
- (c) Earthworm (d) Polygordius
9. The temperature required for making quality castings
- (a)  $15 - 20^{\circ}\text{C}$  (b)  $25 - 30^{\circ}\text{C}$
- (c)  $5 - 10^{\circ}\text{C}$  (d)  $0 - 5^{\circ}\text{C}$
10. Association for promotion of organic farming head quarter is located in
- (a) Mysore (b) Bangalore
- (c) Dharwad (d) Goa

PART B — ( $5 \times 5 = 25$  marks)

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

Each answer should not exceed 250 words.

11. (a) Briefly explain the male reproductive system in earthworm.

Or

- (b) Write a brief note on food habits of earthworm.

12. (a) Describe the native species of earthworms.

Or

(b) Explain the methods of collection of earthworms.

13. (a) Explain the Pit method of vermicomposting.

Or

(b) Describe the method of vermicompost harvesting,

14. (a) “Earthworm as animal feed” -Discuss

Or

(b) List the medicinal importance of earthworm.

15. (a) Write short notes on marketing of vermicompost.

Or

(b) What is the role of NGOs in vermiculture?

PART C — ( $5 \times 8 = 40$  marks)

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

Each answer should not exceed 600 words.

16. (a) “Earthworm as farmers friend”— Justify.

Or

- (b) Describe the digestive system in earthworm.

17. (a) Describe the culture techniques of earthworm.

Or

- (b) Write an essay on South Indian and North Indian species of earthworms used in vermicomposting.

18. (a) Write an account on pest management in vermicomposting.

Or

- (b) Give an account on requirements of vermicompost preparation.

19. (a) Highlight the role of earthworms in soil fertility.

Or

- (b) Give an account on uses of earthworms in land improvement and land reclamation.

20. (a) Give a detailed account on large scale manufacturing of vermicomposting.

Or

- (b) Describe the interaction of earthworm with other organisms in vermicomposting.
-