

(6 pages)

Reg. No. : .....

**Code No. : 30575 E      Sub. Code : CSZO 31**

B.Sc. (CBCS) DEGREE EXAMINATION,  
NOVEMBER 2023.

Third Semester

Zoology

Skill Based Core — HOME AQUARIUM

(For those who joined in July 2021-2022)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. In goldfish fertilization is  
(a) Internal                      (b) External  
(c) Both (a) and (b)      (d) None of the above
2. This is the most common disease in aquarium fishes  
(a) Bacterial diseases      (b) Fungal diseases  
(c) Protozoan diseases      (d) None of the above

3. The aquarium fishes are treated with Potassium permanganate for  
(a) Colouring                      (b) Disinfection  
(c) Deworming                      (d) All the above
4. Aquatic plants also termed as  
(a) Hydrophytes                      (b) Embryophytes  
(c) Both (a) and (b)      (d) None of the above
5. Lobster's teeth are in present in  
(a) Stomach                      (b) Mouth  
(c) Both (a) and (b)      (d) None of the above
6. Sea anemones can reproduce  
(a) Sexually                      (b) Asexually  
(c) Both (a) and (b)      (d) None of the above
7. What does a shrimp eat  
(a) Algae and fish  
(b) Dead and living plants  
(c) Decaying worms  
(d) All the above

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8. This animal is the master of camouflage  
(a) Lizard (b) Octopus  
(c) Stone fish (d) None of the above

9. The star fish cannot survive in  
(a) fresh water (b) marine water  
(c) both (a) and (b) (d) None of the above

10. The pH of freshwater aquarium is kept at  
(a) pH of 6.8 to 7.8 (b) pH of 6 to 7  
(c) pH of 6.5 to 7.5 (d) None of the above

PART B — (5 × 5 = 25 marks)

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

Each answer should not exceed 250 words.

11. (a) Give a detailed account on materials required for construction of home aquarium.

Or

- (b) Discuss about the optimal control of temperature and lighting in an aquarium.

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12. (a) Describe about the common ornamental accessories used in aquarium.

Or

- (b) List out the dos and don'ts while introducing fishes in to the aquarium.

13. (a) Write down the taxonomy of sword tails and its life cycle.

Or

- (b) What are the marine ornamental fishes? Give two examples.

14. (a) Write short note on the symptoms and control measures of bacterial diseases of aquarium fishes.

Or

- (b) Give a brief account on parental care in angel fishes and gold fishes.

15. (a) Explain the role of aquarium plants.

Or

- (b) Write short note about Octopus and starfish.

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PART C — (5 × 8 = 40 marks)

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

Each answer should not exceed 600 words.

16. (a) Write in detail about the materials required for aquarium.

Or

- (b) Describe about the design and construction of marine and freshwater aquarium.

17. (a) Give a detailed account on ornamental fishes used for home aquarium.

Or

- (b) How to set up an aquarium? What are the equipments required for setting up an aquarium?

18. (a) Discuss about the economic importance of ornamental fish and its role in providing employment.

Or

- (b) Mention about the maintenance of live bearing aquarium fishes and egg laying fishes with examples.

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19. (a) Explain about the reproductive biology of angel fish.

Or

- (b) Give a detailed account on common diseases of freshwater and marine aquarium fishes.

20. (a) Explain in detail about the status of aquarium in India and abroad.

Or

- (b) Describe about the aquarium tank with neat diagram.

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