



SEAT No. \_\_\_\_\_

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SARDAR PATEL UNIVERSITY  
B.Sc. (III SEM.) EXAMINATION 2022

For day, 17th June-22  
12.00 pm to 2.00 pm

US03CZOO01 : Zoology, Invertebrata and Vetebrata

Total Marks: 70

Q.1 Multiple choice questions:

10

1. How many gonads are present in a medusa of Obelia ?  
a) 01 b) 04 c) 06 d) 08
2. Obelia is ---  
a) Monomorphic b) dimorphic c) meta morphic d) none
3. Cilia in Paramecium arise from  
a) Cell wall b) basal tissue c) basal granules d) none
4. Locomotory organs is Nereis is  
a) Podia b) Setae c) Parapodia d) all
5. Liver fluke is a parasite that lives in the ---  
a) Sheep liver b) sheep lung c) sheep heart d) none
6. Excretory organs of Nereis is ---  
a) Meta nephridia b) kidney c) skin cell d) none
7. Body of Scoliodon is covered by ----  
a) Tenoid scales b) ceploid scales c) Placoid scales d) All
8. The heart in Fishes is ---  
a) 4 chambered b) 2 chambered c) 3 chambered d) none
9. Salivary glands in Frog are ---  
a) Present b) absent c) not well develop d) well develop
10. The food habitat of Tadpole larva is ---  
a) Carnivorous b) Herbivorous. c) omnivorous d) all

**Q.2 fill in the blanks and true or false**

08

1. Paramoecium locomotion by cilia (True/false)
2. Heteroneries is separate species of neries (True/false)
3. Shark belong to class reptile (True/false)
4. frog is a amphibian (True/false)
5. Amoeba locomotion by \_\_\_\_\_
6. Parapodia is organ of \_\_\_\_\_ animal
7. Ampulla of Lorenzini is sense organ of \_\_\_\_\_
8. Frog respiration by \_\_\_\_\_ and \_\_\_\_\_

**Q.3 Answer in short (Attempt any ten)**

20

- (1) Write characters of protozoa
- (2) Draw label diagram of shark external characters.
- (3) How do the fresh water sponges obtain food and water?
- (4) What are flame cells?
- (5) Describe how "Nereis feeds"?
- (6) How many types of mouth parts are found in insects?
- (7) Sketch and Label of sycon internal structure.
- (8) Draw label diagram of frog.
- (9) Write the names of lobes present in frog's brain.
- (10) Define porifera with examples
- (11) Classify neries with characters
- (12) Write characters of class fishes

**Q.4 Long question writes any four**

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|--|----|
| A) Describe locomotion in protozoa.                        | 08 |
| B) Give in detail the structure of the body wall of sycon. | 08 |
| C) Describe digestive system of Liver fluke.               | 08 |
| D) (i) Write note on hetero neries                         | 04 |
| (ii) parapodium of neries                                  | 04 |
| E) Digestive system of shark                               | 08 |
| F) Describe economic importance of fishes                  | 08 |
| G) Describe digestive system of Rana tigrina.              | 08 |
| H) Give an account of urinogenital system of frog.         | 08 |

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