

SEAT No. ....



No. of Printed Pages: 2

[17/A-17]

**Sardar Patel University**  
S.Y.B.Sc Third semester: 2022-23  
Zoology - US03Z0001 (Batch2011-17)  
Invertebrate and Vertebrate

Day And Date: 24/09/22; Saturday  
Time: 12.30 to 2.30pm

Full marks: 70

**Q.1 Multiple choice questions**

**10**

1. The locomotory organelle of Amoeba is:  
a. Flagella  
b. Pseudopodia  
c. Cilia  
d. Parapodia
2. Larva of Sycon is known as  
a. Amphiblastula  
b. Bipinnaria  
c. Trochophore  
d. Zoa
3. The exit pore of Sycon is?  
a. Ostia  
b. Osculum  
c. Prosopyle  
d. Spongocoel
4. Parapodia of Nereis helps in  
a. Locomotion  
b. Digestion  
c. Reproduction  
d. None
5. Liver fluke is not affected by enzyme of host because of  
a. Sneakers  
b. Cuticle  
c. Hooks  
d. Dermis
6. Intermediate host of Liver fluke is  
a. Sheep  
b. Cyclops  
c. Snail  
d. Cercaria
7. Scoliodon body is covered by  
a. Placoid scales  
b. Ctenoid scales  
c. Dermal scales  
d. Cycloid scale
8. Scoliodon heart is \_\_\_\_\_ chambered.  
a. Single  
b. Two  
c. Three  
d. Four
9. Which type of vitamins is present in Liver oil of Fishes?  
a. B & D  
b. B & C  
c. A & D  
d. A & B
10. The third eyelid in frog is called  
a. Pineal eye  
b. Upper eyelid  
c. Lower eyelid  
d. Nictitating membrane

**Q.2 Write True or False**

**1X8=08**

1. Flagella is a locomotory organelles in protozoa. True/False?
2. *Obelia* is polymorphics. True/False?
3. Sycon belongs to phylum coelenterata. True/False?
4. Fasciola is an endoparasite. True/False?
5. Rohu gives us flesh. True/False?
6. *Scoliodon* is a terrestrial animal. True/False?
7. *Rana tigrina* is the scientific name of frog. True/False?
8. Frog belongs to class fishes. True/False?

**Q.3 Write short answers (Any Ten)**

**10X2= 20**

1. Describe pseudopodia.
2. Describe sporulation.
3. Write habit and habitat in sycon.
4. Name the different larva found in Liver fluke life cycle.
5. Classify *Nereis*.
6. What are flame cells?
7. Draw external features of Shark.
8. Write about the harmful fishes.
9. Sketch and label placoid scales.
10. Write about sexual dimorphism in frog.
11. Describe buccal respiration
12. Write about camouflage.

**Q.4 Long Answer (Write any four)**

**8X4= 32**

1. Describe the structure of the body wall of the sycon.
2. Draw life cycle of *Obelia*
3. Describe external morphology of Liver fluke.
4. Describe structure of parapodia in *Nereis*.
5. Describe economic importance of fish
6. Describe the digestive system of sharks.
7. Describe metamorphosis in frog.
8. Describe male urogenital system of frogs.

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