

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

2012

Monday, 31st December

2.30 pm to 5.30 pm

US03CZOO01 : Zoology, Invertebrata and Vetebrata

Total Marks: 70

Note:(i) Attempt all questions.

(ii) Draw diagrams wherever necessary.

(iii) Write in your own language.

Q.1 Multiple choice questions: (Choose the right option) [10]

- (1) Name of the Scypha's larva
 - (a) amphiblastula
 - (b) Parenchymiula
 - (c) Stomablastula
 - (d) all of them
- (2) Blastozoid is
 - (a) Gonozoid
 - (b) Trophozoid
 - (c) Gastrozoid
 - (d) Polye
- (3) Locomotory organs is Nereis is
 - (a) Podia
 - (b) Setae
 - (c) Parapodia
 - (d) all the above
- (4) In rohu homodont teeth are present in
 - (a) Buccal caight
 - (b) Oesophagns
 - (c) Posterier pharyngeal chamber
 - (d) Anterier pharyngeal chamber
- (5) Rana tigrina is member of the order
 - (a) Lepospondyte
 - (b) Anura
 - (c) Apoda
 - (d) Urodla
- (6) The teeth in frog are meant for
 - (a) Chewing
 - (b) Preventing prey from slip
 - (c) Tearing
 - (d)Cutting
- (7) Which is the first stage of Larva of fasciola
 - (a) Miracidium
 - (b) Sperocyst
 - (c) Redia
 - (d) Cercaria
- (8) Biting and chewing type of mouth-parts occur in
 - (a) Grasshopper
 - (b) Cockroach
 - (c) Cricket
 - (d) All
- (9) Which one of the following cells maintain a current of water in sponge
 - (a) Porocyte
 - (b) Myocyte
 - (c) Chromocyte
 - (d) Choanocyte
- (10) Down stroke and recovery stroke are the two phases of
 - (a) Movement of contraetile vacuole
 - (b) Flagellar movement
 - (c) Movement of food vacuole
 - (d) Amoeboid movement

- Q.2 Answer in short (Attempt any six) [12]
- (1) Describe parthenogenesis.
 - (2) How do the fresh water sponges obtain food and water?
 - (3) What are flame cells?
 - (4) Describe how "Nereis feeds"?
 - (5) How many types of mouth parts are found in insects?
 - (6) Sketch and Label Labeo rohita.
 - (7) Describe sexual dimorphism in frog.
 - (8) Write the names of lobes present in frog's brain.
- Q.3 Describe locomotion in protozoa. [08]
- OR**
- Q.3 Give in detail the structure of the body wall of sycon. [08]
- Q.4 Describe the various types of zooids found in obolella colony. [08]
- OR**
- Q.4 Describe digestive system of Liver fluke. [08]
- Q.5 Describe briefly:
- (a) Parapodium of Nereis [04]
 - (b) Heteronereis [04]
- OR**
- Q.5 Describe the following:
- (a) Piercing and sucking type of mouth parts in insect. [04]
 - (b) Sponging type of mouth parts in insect. [04]
- Q.6 Describe Alimentary canal of rohu. [08]
- OR**
- Q.6 Describe Urino-genital organ of rohu. [08]
- OR**
- Q.7 Describe habits of frog. [08]
- OR**
- Q.7 Describe heart of Rana tigrina. [08]
- Q.8 Give an account of different modes of respiration in frog. [08]
- OR**
- Q.8 Give an account of Arterial system of Rana tigrina. [08]

