

Bago University
Department of Zoology
First Semester Examination, March 2019

Second Year BSc
(Zoology Specialization)
Answer ALL questions

Zool. 2102
Mollusca
Time Allowed: (3) Hours

I. State TRUE or FALSE to the following statements.

(10 marks)

1. Some of the Mollusca classes are represented in the marine environment.
2. The protobranchs are mostly small-sized bivalves.
3. Japanese saltwater cultured pearls come from the Akoya oyster.
4. The marine shelled species of gastropod include edible species.
5. The monoplacophoran animal has a poorly defined head.
6. Vermetidae has shells resembling worm-tubes.
7. The body shape of Aplacophora is slightly round in appearance.
8. Cocculinids are a group of simple white limpets.
9. A number of species of molluscs can bite or sting humans.
10. Cephalopods tend to concentrate ingested heavy metals in their body tissue.

II. Complete the following statements with appropriate words.

(10 marks)

1. The Pelecypods are ----- molluscs.
2. The word mollusk comes from the Latin *mollis*, -----.
3. The freshwater mussels have ----- larva.
4. Oysters are low in food -----.
5. Chitons have separate sexes and fertilization is -----.
6. Gastropods were able to adapt to ----- water.
7. A scaphopod's foot is made for digging the animal into the ----- floor.
8. The brain of cephalopods is protected in a ----- cranium.
9. Octopods only have ----- pairs of sucker-coated arms.
10. Buttons are made by hand cutting of ----- of freshwater bivalves.

III. Answer ALL questions

(10 marks)

1. Differentiate between protobranchs and other bivalves.
2. Define the term aestivation in gastropods.
3. State the habitat of Aplacophora and Polyplacophora.
4. State about the "homing behaviour" of chitons.
5. State briefly on the economic importance of molluscs.

IV. Answer ALL questions

(20 marks)

1. Name the subphyla of Molluscs and write the general characters of all modern molluscs.
2. State what is meant by torsion in gastropods.
3. Explain the reproduction of Aplacophorans.
4. Describe about the tentacles of *Octopus*.

V. Answer ANY THREE questions

(30 marks)

1. List the key features of Molluscs.
2. Enumerate any ten characteristics of Class Pelecypoda.
3. Enumerate the characteristics of Class Polyplacophora.
4. State briefly on behaviour of *Chiton*.
5. Give an interesting account on the mantle of Scaphopod.
6. Tabulate the eight living classes and two extinct of organisms.
