

B.Sc. Semester - 2 (CBCS) Examination
March/April -2019 (New Course)
ZOOLOGY(CORE)

Time: 2:30 Hours**Marks: 70****Instructions:**

1. All questions are compulsory.
 2. Figures to the right indicate marks.
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Que. 1 A) Attempt any one of the following (07)

1. Classify with characters and example each class of Super Class: Tetrapoda
2. Describe digestive system and digestion in amphioxus.

Que. 1 B) Attempt any one of the following (04)

1. Draw a labelled diagram of T.S. passing through pharynx region.
2. Describe developmental changes from blastula to gastrula in amphioxus embryology.

Que. 1 C) Attempt any three of the following (03)

1. Draw a labelled diagram of ova of amphioxus.
2. Which apertures are found in amphioxus?
3. Write the name of classes of urochordata.
4. Classify: Hippocampus (Sea-horse).
5. Which class of phylum chordate lacks jaws and paired fins?

Que. 2 A) Attempt any one of the following (07)

1. Explain in detail coat colour in rabbit as an example of multiple alleles.
2. Describe in detail: Darwinism and Neo-Darwinism.

Que. 2 B) Attempt any one of the following (04)

1. Describe incompleteness of fossil record.
2. Write a short note on ABO blood group.

Que. 2 C) Attempt any three of the following (03)

1. Who is the father of genetics?
2. Give an antigen and antibody for B blood group type.
3. What is Gastroliths?
4. Make a list of progressive changes in horse during evolution.
5. Who gave the theory of inheritance of acquired characters in evolution?

Que. 3 A) Attempt any one of the following (07)

1. Describe spermatogenesis and its significance.
2. Physiology of blood coagulation.

Que. 3 B) Attempt any one of the following (04)

1. Write a short note on absorption of carbohydrate and protein.
2. Give composition of blood.

Que. 3 C) Attempt any three of the following (03)

1. How many ova produced from primary oocyte?
2. Give names of Factor – IX and Factor – X.
3. What is the role of bile salt in digestion?
4. Write the name of agranulocytes W.B.C.
5. Define: Digestion.

Que. 4 A) Attempt any one of the following (07)

1. Describe in brief: Bed bug and Human louse as parasite insects
2. Write pathogenic effect, control and prevention of entamoeba, and filarial worm.

Que. 4 B) Attempt any one of the following (04)

1. Write a short note on apparatus used in poultry farm.
2. Write a short note on *Ascaris lumbricoides*.

Que. 4 C) Attempt any three of the following (03)

1. Define: Deep litter poultry farm.
2. Make a list of aquarium fishes.
3. Tse Tse fly is vector of _____ disease.
4. Which insect is responsible for bubonic plague?
5. What are the usages of aquarium?

Que. 5 A) Attempt any one of the following (07)

1. Heart of reptile and mammal.
2. Sexual cycle in females of primates.

Que. 5 B) Attempt any one of the following (04)

1. Proestrus and estrus phase of estrus cycle.
2. Describe Sebaceous gland and Sweat gland

Que. 5 C) Attempt any three of the following (03)

1. Define monoestrus animals with example.
2. Give examples of true horns.
3. In which animals having two chambered single circuit venous heart?
4. Which hormone suddenly increases during ovulatory phase of menstrual cycles?
5. Nails of primate (mammals) are modifications of _____.
