

**B.Sc. Semester - 2 (CBCS) Examination
March/April- 2019 (Old Course)**

**ZOOLOGY
(CORE)**

Time: 2:30 Hours

Marks: 70

Instructions:

1. All questions are compulsory.
2. Figures to the right indicate marks.

Que. 1 A) Give the answer of following questions in short. (04)

1. Write three main characters of chordate.
2. Classify: Crocodile
3. Write the scientific name of amphioxus.
4. Draw labelled diagram of sperm of amphioxus.

Que. 1 B) Write any one out of two. (02)

1. Write characters of amphibia.
2. Draw a labelled diagram of external feature of amphioxus.

Que. 1 C) Write any one out of two. (03)

1. Write characters of mammals.
2. Draw a labelled diagram of T.S. passing through pharynx region of amphioxus.

Que. 1 D) Write any one out of two. (05)

1. Describe digestive system and digestion in amphioxus.
2. Blastula and gastrula in amphioxus.

Que. 2 A) Give the answer of following questions in short. (04)

1. Who gave the theory of "Natural Selection" of evolution?
2. Define – Fossils.
3. Write genotype of Homozygous Chinchilla rabbits.
4. Who discover ABO blood group?

Que. 2 B) Write any one out of two. (02)

1. Write characters of multiple alleles.
2. Write a short note on types of fossils.

Que. 2 C) Write any one out of two. (03)

1. Write progressive changes in horse during evolution.
2. Write a short note on coat colour gene in rabbit.

Que. 2 D) Write any one out of two. (05)

1. Describe ABO blood group in humans.
2. Describe evolutionary theory of Darwin.

Que. 3 A) Give the answer of following questions in short. (04)

1. Give the name of WBCs which are known as granulocytes.
2. What is egestion?
3. Process of spermatogenesis take place in _____ organ.
4. Which ions play important role in blood coagulation?

- Que. 3 B) Write any one out of two. (02)**
1. Absorption of lipids.
 2. Multiplication phase of oogenesis.
- Que. 3 C) Write any one out of two. (03)**
1. Write a short note on physiology of digestion in stomach and small intestine.
 2. Write a short note on composition of blood.
- Que. 3 D) Write any one out of two. (05)**
1. Describe in detail spermatogenesis and its significance.
 2. Describe physiology of blood coagulation.
- Que. 4 A) Give the answer of following questions in short. (04)**
1. Which disease is spread by flea?
 2. Which micro-organism is responsible for sleeping sickness disease?
 3. Write the name of secondary host of elephantiasis (filariasis).
 4. Write only names of breed of poultry fowls.
- Que. 4 B) Write any one out of two. (02)**
1. Write pathogenic effect of antamoeba.
 2. Make a list of plants and fishes which are used in aquarium.
- Que. 4 C) Write any one out of two. (03)**
1. Damage, prevention and control of Round Worm.
 2. Bed Bug as harmful insect.
- Que. 4 D) Write any one out of two. (05)**
1. Distribution, life cycle, damage, control and prevention of human louse.
 2. Types of poultry house and apparatus of poultry farm.
- Que. 5 A) Give the answer of following questions in short. (04)**
1. Menstrual cycle is repeated in _____ days in human female.
 2. Give two examples of poly estrus animals.
 3. How many chambers are found in heart of reptiles.
 4. Give the name of animals having hoofs.
- Que. 5 B) Write any one out of two. (02)**
1. Draw a labelled diagram of heart of fishes.
 2. Horns as integument derivatives.
- Que. 5 C) Write any one out of two. (03)**
1. Proestrus and estrus phase of estrus cycle.
 2. Glands as derivatives of integuments.
- Que. 5 D) Write any one out of two. (05)**
1. Describe menstrual cycle.
 2. Heart of amphibian and mammals.
