

B.Sc. Semester - 4 (CBCS) Examination
July-2025 [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) Answer the following question (any one out of two) (07)
1. Give the classification of super class pisces up to class with suitable Examples.
 2. Explain Platypus as connecting link between Reptiles & Mammals.
- Que.1(B) Answer the following question (any one out of two). (04)
1. Give the characters of class reptiles.
 2. Explain Archaeopteryx as a connecting link between Reptiles and Aves.
- Que.1(C) Answer the following question (any three out of five) (03)
1. Give any two examples of class Amphibia.
 2. Which type of scales are found in cartilaginous fishes?
 3. Give any two characters of class Aves.
 4. Give any two examples of Ratite.
 5. Give any two characters of class mammals.
- Que.2(A) Answer the following question (any one out of two) (07)
1. Describe digestive system of Calotes with suitable diagram.
 2. Write differences between venomous & non-venomous snakes.
- Que.2(B) Answer the following question (any one out of two). (04)
1. Draw a labelled diagram of male reproductive system of Calotes.
 2. Explain anadromous migration in fishes.
- Que.2(C) Answer the following question (any three out of five) (03)
1. Define catadromous migration of fish.
 2. Give example of any two venomous snake.
 3. Write scientific name of Calotes.
 4. Give example of any two non-venomous snake.
 5. How many chambers are there in heart of Calotes?
- Que.3(A) Answer the following question (any one out of two) (07)
1. Describe Menopause in detail.
 2. Explain types of eggs according to yolk.
- Que.3(B) Answer the following question (any one out of two). (04)
1. Describe structure of Nephron.
 2. Describe structure of Testis.
- Que.3(C) Answer the following question (any three out of five) (03)
1. What is the average age of Menopause in female?
 2. Give name of hormones of ovary.
 3. Which hormone primarily regulates water reabsorption in the kidneys?
 4. Define holoblastic cleavage.
 5. List out the most common nitrogenous waste product in humans.
- Que.4(A) Answer the following question (any one out of two) (07)
1. Describe structure of chromosome.
 2. Write note on DNA finger printing.
- Que.4(B) Answer the following question (any one out of two). (04)
1. Write short note: Polytene chromosome.
 2. Write short note: Sickle-Cell anemia.

Que.4(C) Answer the following question (any three out of five) (03)

1. If the ratio $\frac{X}{A}=1$ in Drosophila it will be produce _____
2. Give the full form of PKU.
3. When centromere located in center or middle of the chromatids and the length of both side of chromatids are equal, this type of chromosome known as _____.
4. How many pairs of autosomes are typically found in a normal human somatic cell?
5. Kappa Particles is the best example of _____ inheritance.

Que.5(A) Answer the following question (any one out of two) (07)

1. Describe Evolution of Man.
2. Describe aortic arch of Reptile and Aves.

Que.5(B) Answer the following question (any one out of two). (04)

1. Describe homologous and analogous organs.
2. Describe Prawn Fisheries.

Que.5(C) Answer the following question (any three out of five) (03)

1. Name one vestigial organ found in the human body.
2. Pulmonary aorta arises from _____ Ventricle.
3. Lobster belongs to Phylum _____.
4. Give scientific name of Bombay duck.
5. Is Pomfret a marine or freshwater fish?
