

**B.Sc. Semester - 4 (CBCS) Examination**  
**March/April-2023 [OLD COURSE]**  
**ZOOLOGY(CORE)**

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

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

**Q.1(A) Answer the following questions. (Any One) (07)**

1. Give the classification of super class Pisces up to class with suitable examples.
2. Give the classification of class Aves with suitable examples.

**Q.1(B) Answer the following question. (Any One) (04)**

1. Write a short note on: Ratitae.
2. Write a short note on: Affinities of prototheria.

**Q.1(C) Answer the following question. (Any Three) (03)**

1. Which type of scales found in cartilaginous fishes ?
2. Hyla belongs to which class ?
3. Give any two examples of class reptiles.
4. .... is the connecting link between Reptiles and Aves.
5. Spiny ant eater belongs to class.....

**Q.2(A) Answer the following questions. (Any One) (07)**

1. Describe Digestive System of calotes.
2. Describe Migration in fishes.

**Q.2(B) Answer the following question. (Any One) (04)**

1. Sktech and label: Urinogenital system of male calotes.
2. Describe python and cobra

**Q.2(C) Answer the following question. (Any Three) (03)**

1. .... is the best example of catadromous migration.
2. Which artery supplies blood to forelimb in calotes ?
3. List out the parts of fore brain found in calotes.
4. Give any two examples of non-poisonous snake.
5. Give any two examples of poisonous snake.

**Q.3(A) Answer the following questions. (Any One) (07)**

1. Describe types of cleavage.
2. Describe menopause in detail.

**Q.3(B) Answer the following question. (Any One) (04)**

1. Write a short note on structure of nephron.
2. Write a short note on hormones of ovary.

**Q.3(C) Answer the following question. (Any Three) (03)**

1. According to distribution of yolk which type of eggs found in insects ?
2. In which type of cleavage, the cleavage furrows bisect the entire eggs ?
3. List out the nitrogenous waste materials found in animal.
4. List out any four symptoms of menopause.
5. The male hormone are known as.....

**Q.4(A) Answer the following questions. (Any One) (07)**

1. Describe lampbrush chromosome as giant chromosome.
2. Describe DNA finger printing.

**Q.4(B) Answer the following question. (Any One) (04)**

1. Write a short note on sex determination in human being.
2. Write a short note on albinism.

**Q.4(C) Answer the following question. (Any Three) (03)**

1. In which type of chromosome we found satellite ?
2. Colchicine is added to arrest cell division at .....stage.
3. In drosophila the ratio of X/A is 0.5 it will be produce.....
4. Give the full name of PKU.
5. .... is caused by a mutation on homogentisate 1,2-dioxygenase gene.

**Q.5(A) Answer the following questions. (Any One) (07)**

1. Give a general account of evolution in man.
2. Describe pearl oyster fishries.

**Q.5(B) Answer the following question. (Any One) (04)**

1. Write a short note on Aortic arches in amphibia.
2. Write a short note on homologous organs.

**Q.5(C) Answer the following question. (Any Three) (03)**

1. The organ which are morphologically similar but anatomically dissimilar and performing same function called as.....
2. List out vestigial organs of human.
3. In reptiles, the connection between carotid arch and systemic arch is known as.....
4. Give the scientific name of bombay duck.
5. Prawn and Lobster belongs to phylum.....

\*\*\*\*\*