

B.Sc. Semester - 4 (CBCS) Examination
March/April-2024 [OLD 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) ANSWER THE FOLLOWING QUESTIONS. (ANY ONE OUT OF TWO) (07)
1. Give the general characteristics and classification of super class Pisces with suitable examples.
 2. Give the general characteristics of class Reptiles with suitable examples.
- Que.1(B) ANSWER THE FOLLOWING QUESTIONS. (ANY ONE OUT OF TWO) (04)
1. Give the general characteristics of class cyclostomata with suitable examples.
 2. Write a short note on Platypus as connecting link between Aves & Mammals.
- Que.1(C) GIVE THE ANSWER OF FOLLOWING QUESTIONS. (ANY THREE OUT OF FIVE) (03)
1. Archaeopteryx is a connecting link between _____ and _____.
 2. Loris belongs to class _____.
 3. Which nitrogenous waste substance found in class mammals?
 4. Amphioxus belongs to sub-phylum _____ and class _____.
 5. Exoskeleton of feathers is character of class _____.
- Que.2(A) ANSWER THE FOLLOWING QUESTIONS. (ANY ONE OUT OF TWO) (07)
1. Describe: Digestive system of *Calotes*.
 2. Give the detail account of any three venomous snake.
- Que.2(B) ANSWER THE FOLLOWING QUESTIONS. (ANY ONE OUT OF TWO) (04)
1. Write a short note on anadromous and catadromous fish migration.
 2. Describe male urinogenital system of *Calotes*.
- Que.2(C) GIVE THE ANSWER OF FOLLOWING QUESTIONS. (ANY THREE OUT OF FIVE) (03)
1. What are the peculiar identification characters of Sand boa?
 2. _____ is the scientific name of *Calotes*.
 3. Salmon fish shows _____ of migration.
 4. Hepatic portal vein is formed by branches from _____ organs.
 5. List out the biting apparatus of venomous snakes.
- Que.3(A) ANSWER THE FOLLOWING QUESTIONS. (ANY ONE OUT OF TWO) (07)
1. Give the detail account of structure of nephron.
 2. Describe: Menopause
- Que.3(B) ANSWER THE FOLLOWING QUESTIONS. (ANY ONE OUT OF TWO) (04)
1. Write a short note on types of eggs according to amount of yolk.
 2. Write a short note on hormones of testis.

- Que.3(C) GIVE THE ANSWER OF FOLLOWING QUESTIONS. (ANY THREE OUT OF FIVE) (03)
1. Define the term : Cleavage.
 2. What is the ADH?
 3. Write any two functions of hormone Progesteron.
 4. Uric acid is excreted in form of semisolid by _____ animals.
 5. Discoidal type of yolk found in _____.
- Que.4(A) ANSWER THE FOLLOWING QUESTIONS. (ANY ONE OUT OF TWO) (07)
1. Describe: Polytene chromosome.
 2. Give the detail account of human karyotyping.
- Que.4(B) ANSWER THE FOLLOWING QUESTIONS. (ANY ONE OUT OF TWO) (04)
1. Write a short note on cytoplasmic inheritance in Paramecium.
 2. Write a short note on: Phenylketonuria (PKU)
- Que.4(C) GIVE THE ANSWER OF FOLLOWING QUESTIONS. (ANY THREE OUT OF FIVE) (03)
1. What is albinism?
 2. What is the function centromere?
 3. _____ is added to arrest cell division at metaphase stage.
 4. Give the examples of inborn errors of metabolism.
 5. _____ pigment is responsible for color of skin, hair and eyes.
- Que.5(A) ANSWER THE FOLLOWING QUESTIONS. (ANY ONE OUT OF TWO) (07)
1. Describe: Evolution of man.
 2. Describe: Homologous and Analogous organs
- Que.5(B) ANSWER THE FOLLOWING QUESTIONS. (ANY ONE OUT OF TWO) (04)
1. Write a short note on Prawn fisheries.
 2. Give comparative of aortic arches of Aves & Mammals.
- Que.5(C) GIVE THE ANSWER OF FOLLOWING QUESTIONS. (ANY THREE OUT OF FIVE) (03)
1. Make a list of vestigial organs in human.
 2. List out the type reproductive isolation.
 3. Which molluscan animal is associated with pearl fisheries?
 4. Give the scientific name of Bombay duck.
 5. *Homo erectus* is also known as _____.
