

B.Sc. Semester - 4 (CBCS) Examination
March/April-2024 [NEW COURSE]
Zoology-Z401(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 TWO OUT OF THREE) (10)
1. Give the general characteristics of class Amphibia with any two suitable examples.
 2. Give the general characteristics of class Mammals with any two suitable examples.
 3. Give general account of Ratitae.
- Que.1(B) ANSWER THE FOLLOWING QUESTIONS. (ANY ONE OUT OF TWO) (04)
1. Give the classification of sub-phylum Urochordata with suitable examples.
 2. Describe Archaeopteryx connecting link between Reptile & Aves.
- Que.2(A) ANSWER THE FOLLOWING QUESTIONS. (ANY TWO OUT OF THREE) (10)
1. Describe male Urinogenital system of *Calotes*.
 2. Describe Arterial system of *Calotes*.
 3. Give an account of difference between venomous and non-venomous snakes with suitable examples.
- Que.2(B) ANSWER THE FOLLOWING QUESTIONS. (ANY ONE OUT OF TWO) (04)
1. Describe Python and Russel's viper with peculiar characters.
 2. Describe migration in fishes in detail.
- Que.3(A) ANSWER THE FOLLOWING QUESTIONS. (ANY TWO OUT OF THREE) (10)
1. Describe: Types of eggs according to distribution and amount of yolk.
 2. Describe formation of Urine.
 3. Describe Menopause in detail.
- Que.3(B) ANSWER THE FOLLOWING QUESTIONS. (ANY ONE OUT OF TWO) (04)
1. Write a short note on hormones of Ovary.
 2. Write a short note on types of cleavage.
- Que.4(A) ANSWER THE FOLLOWING QUESTIONS. (ANY TWO OUT OF THREE) (10)
1. Describe Polytene chromosome.
 2. Describe: Cytoplasmic inheritance in 4 O' Clock *Mirabilis jalapa*.
 3. Give a detail account of DNA finger printing.
- Que.4(B) ANSWER THE FOLLOWING QUESTIONS. (ANY ONE OUT OF TWO) (04)
1. Describe: Type of Chromosome according to centromere.
 2. Write a short note on Sickle-Cell anemia.
- Que.5(A) ANSWER THE FOLLOWING QUESTIONS. (ANY TWO OUT OF THREE) (10)
1. Give a general account of speciation.
 2. Describe aortic arches in fishes and Reptiles.
 3. Describe morphological and comparative anatomy of homologous and analogous organs.
- Que.5(B) ANSWER THE FOLLOWING QUESTIONS. (ANY ONE OUT OF TWO) (04)
1. Write a short note on Pomfret fisheries.
 2. Write a short note on Pearl Oyster.
