

B.Sc. Semester - 4 (CBCS) Examination

April/May -2022 [NEW COURSE]

Zoology-Z401 (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 QUESTIONS. (ANY TWO OUT OF THREE) [10]

1. Give the classification of super class pisces up to class with suitable examples.
2. Give the classification of class Aves with any two examples.
3. Describe platypus as connecting link between Reptiles and mammals.

QUE-1 (B) ANSWER THE FOLLOWING QUESTIONS. (ANY ONE OUT OF TWO) [04]

1. Give the classification of class Reptiles with two suitable examples.
2. Give general account of Ratitae.

QUE-2 (A) ANSWER THE FOLLOWING QUESTIONS. (ANY TWO OUT OF THREE) [10]

1. Describe Arterial system of calotes.
2. Describe male and female urinogenital system of catoles.
3. Give an account of difference between poisonous and non- poisonous snakes with suitable examples.

QUE-2 (B) ANSWER THE FOLLOWING QUESTIONS. (ANY ONE OUT OF TWO) [04]

1. Describe migration in fishes in detail.
2. Describe sandboa and king cobra with peculiar characters.

QUE-3 (A) ANSWER THE FOLLOWING QUESTIONS. (ANY TWO OUT OF THREE) [10]

1. Types of eggs according to distribution and amount of yolk.
2. Describe menopause in detail.
3. Describe structure of nephron.

QUE-3 (B) ANSWER THE FOLLOWING QUESTIONS. (ANY ONE OUT OF TWO) [04]

1. Write a short note on Hormone of Testes.
2. Write a short note on types of cleavage.

QUE-4 (A) ANSWER THE FOLLOWING QUESTIONS. (ANY TWO OUT OF THREE) [10]

1. Describe sex determination in Drosophila.
2. Describe polytene chromosome as giant chromosome.
3. Cytoplasmic inheritance in paramecium.

QUE-4 (B) ANSWER THE FOLLOWING QUESTIONS. (ANY ONE OUT OF TWO) [04]

1. Describe DNA finger printing.
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 evolution of man.
2. Describe aortic arches in vertebrates.
3. Describe morphological and comparative anatomy of homologus and analogus organs.

QUE-5 (B) ANSWER THE FOLLOWING QUESTIONS. (ANY ONE OUT OF TWO) [04]

1. Write a note on Bombay duck fisheries.
2. Write a short note on pearl oyster fisheries.