

B.Sc. Semester - 2 (CBCS) Examination
June/July-2022 [NEW 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**[04]**

- (1) In which fishes air bladder is found?
- (2) Write any three characters of class- Aves.
- (3) Classify Petromyzon upto class with reasons.
- (4) Draw labeled diagram of sperm and ovum of Amphioxus.

QUE-1 (B) ANSWER THE FOLLOWING QUESTIONS (ANY ONE OUT OF TWO)**[03]**

- (1) Discuss characters of class Amphibia with example.
- (2) Describe: T.S. passing through Pharynx Region in Amphioxus.

QUE-1 (C) ANSWER THE FOLLOWING QUESTIONS (ANY ONE OUT OF TWO)**[07]**

- (1) Describe digestive system in Amphioxus with diagram along with fine structure of Endostyle region.
- (2) Discuss characters of class Reptiles and Mammals with suitable examples.

QUE-2 (A) ANSWER THE FOLLOWING QUESTIONS**[04]**

- (1) Who described ABO blood group system in human?
- (2) Give the Genotype of Light Grey in Rabbit.
- (3) Who proposed the theory of Inheritance of Acquired Characters?
- (4) A father having Blood Group- AB and Mother having Blood Group- O, what will be probable Blood Group types of children?

QUE-2 (B) ANSWER THE FOLLOWING QUESTIONS (ANY ONE OUT OF TWO)**[03]**

- (1) Describe various types of fossils.
- (2) Describe: Eohippus and Equus

QUE-2 (C) ANSWER THE FOLLOWING QUESTIONS (ANY ONE OUT OF TWO)**[07]**

- (1) Describe: Coat Colour in Rabbit.
- (2) Describe: Darwinism

QUE-3 (A) ANSWER THE FOLLOWING QUESTIONS**[04]**

- (1) Give location of microvilli.
- (2) Which Factor is responsible for stabilizing fibrin?
- (3) How many Ova & Polar bodies are found after one successful Oogenesis?
- (4) Which cells do share highest proportion in total W.B.C. count?

QUE-3 (B) ANSWER THE FOLLOWING QUESTIONS (ANY ONE OUT OF TWO) [03]

- (1) Describe: Spermatogenesis
- (2) Write a short note on different types of WBCs.

QUE-3 (C) ANSWER THE FOLLOWING QUESTIONS (ANY ONE OUT OF TWO) [07]

- (1) Give a general account of Digestion and Absorption of Protein in Alimentary Canal.
- (2) Describe: Physiology of Blood Co-agulation with factors affecting on it.

QUE-4 (A) ANSWER THE FOLLOWING QUESTIONS [04]

- (1) *Entamoeba histolytica* causes _____ Disease.
- (2) Which one act as secondary vector of Trypanosoma?
- (3) Which diseases is spread through Cyclops?
- (4) _____ is the Vector of Bubonic Plague.

QUE-4 (B) ANSWER THE FOLLOWING QUESTIONS (ANY ONE OUT OF TWO) [03]

- (1) Describe in short: Fresh Water Aquarium.
- (2) Describe: Brooders and Feeding utensils.

QUE-4 (C) ANSWER THE FOLLOWING QUESTIONS (ANY ONE OUT OF TWO) [07]

- (1) Describe: General Characters, Life Cycle and pathogenic effects of Round Worm.
- (2) Describe: Human louse & Bed bug as Harmful Insects.

QUE-5 (A) ANSWER THE FOLLOWING QUESTIONS [04]

- (1) Which type of Horn is Found in Goat and Sheep?
- (2) Pulmonary aorta arises from _____ and carries Deoxygenated blood to the _____.
- (3) How many chambers are there in heart of pieces?
- (4) Give examples of monoestrus and polyestrus animals.

QUE-5 (B) ANSWER THE FOLLOWING QUESTIONS (ANY ONE OUT OF TWO) [03]

- (1) Write a short note on – Sweat gland and Sebaceous gland
- (2) Describe: Heart of Amphibia.

QUE-5 (C) ANSWER THE FOLLOWING QUESTIONS (ANY ONE OUT OF TWO) [07]

- (1) Compare the Heart of Reptiles and Mammals.
- (2) Describe: Menstrual Cycle
