

B.Sc. Semester - 5 (CBCS) Examination**Oct/Nov.- 2024 (Old Course)****FISHERIES BIOLOGY, ANIMAL HUSBANDRY, WILD LIFE, BIOTECHNOLOGY, TOXICOLOGY
(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 question. (write any one out of two) (07)
1. Write a detailed note on the Fish Nutrition.
 2. Write a note on the various types of Fish Ponds.
- Que.1(B) Answer the following question. (write any one out of two) (04)
1. Write notes on: a) Argulus Disease b) Costiasis Disease
 2. Write notes on: a) Fish Oil b) Isin Glass
- Que.1(C) Answer the following questions. (write any three out of five) (03)
1. Which fish is preferred inland fish for Aquaculture?
 2. Name the most preferred fish for obtaining Liver Oil.
 3. Write the steps of preparing formulated food for Fish?
 4. Which type of pathogen is responsible for white spot disease in Fish?
 5. Which hormones are useful in induced breeding in Indian Major Carp?
- Que.2(A) Answer the following question. (write any one out of two) (07)
1. What was the indigenous method of Apiculture? Describe drawbacks of this method.
 2. Which are the required appliances of Sericulture Industry? Write the steps involved in Sericulture.
- Que.2(B) Answer the following question. (write any one out of two) (04)
1. Draw the diagram of an Artificial Bee Hive.
 2. Describe life history of Silk Worm.
- Que.2(C) Answer the following questions. (write any three out of five) (03)
1. Which are the common enemies of Honey Bee?
 2. What is the common name of Apis Dorsata?
 3. Which gland secretes silk in Silk Worm?
 4. What involves in the process of stifling in Sericulture?
 5. Which honey bee species cannot be domesticated because of their ferocious and irritable nature?
- Que.3(A) Answer the following question. (write any one out of two) (07)
1. Write notes: a) Western Ghats b) Sundaland Biodiversity Hotspots
 2. Explain keystone species concept using the example of star fish in Marine Ecosystem?
- Que.3(B) Answer the following question. (write any one out of two) (04)
1. Write a brief description of Kaziranga Park.
 2. Write a short note on endemic and endangered mammals of India
- Que.3(C) Answer the following questions. (write any three out of five) (03)
1. Write two criteria for declaring a Biodiversity Hotspot.
 2. IBWL is an International Conservation Organization. (True/False)
 3. Kaziranga National Park is situated in the flood plains of which river?
 4. What is the full form of CITES?
 5. Periyar national park has tigers. (True/False)

- Que.4(A) Answer the following question. (write any one out of two) (07)
1. Explain: Restriction Enzymes
 2. Write a short note on Plasmid Vector.
- Que.4(B) Answer the following question. (write any one out of two) (04)
1. Write a short note on Artificial Chromosome Vector.
 2. Describe in detail: Cloning.
- Que.4(C) Answer the following questions. (write any three out of five) (03)
1. Define: Vector.
 2. Write down applications of Restriction Enzyme.
 3. Write down specific features of an Artificial Constructed Vector.
 4. Who coined the term “Biotechnology”?
 5. Which are the types of Cloning?
- Que.5(A) Answer the following question. (write any one out of two) (07)
1. Describe the mode of action of lead metal as a Toxicant in details.
 2. Write a note on the classification of various Toxicants.
- Que.5(B) Answer the following question. (write any one out of two) (04)
1. Explain in details: Arsenic as a Toxicant.
 2. What are the characteristics of a Toxic Exposure?
- Que.5(C) Answer the following questions. (write any three out of five) (03)
1. Which disease caused by Fluoride Toxicity?
 2. What are the main sites of entry for toxicants into the Body?
 3. What are the common symptoms of toxicity in the Body?
 4. Define: Carcinogen.
 5. Give any two applications of Toxicology.
