

B.Sc. Semester - 5 (CBCS) Examination**Oct/Nov - 2025 (NEW COURSE)****Fisheries Biology, Animal Husbandry, Wildlife, Biotechnology and 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 questions. (Any one out of two) (07)
1. Describe inland fisheries in India.
 2. Describe different fish by-product in details.
- Que.1(B) Answer the following questions. (Any one out of two) (04)
1. Write a note on Induced breeding.
 2. Write a note on fish diseases: Gill rot and Fungus infection.
- Que.1(C) Answer the following questions. (Any three out of five) (03)
1. What is Aquaculture?
 2. In Indian major carp, which hormones are useful in induced breeding?
 3. Which are the essential ingredients of fish feed?
 4. Fish liver oil is extracted from
 5. Give any two examples of post harvesting techniques.
- Que.2(A) Answer the following questions. (Any one out of two) (07)
1. Describe the life cycle of honey bee.
 2. Describe the process of pearl culture.
- Que.2(B) Answer the following questions. (Any one out of two) (04)
1. Describe the life cycle of mulberry silk worm.
 2. Write a short note on procedure of Apiculture.
- Que.2(C) Answer the following questions. (Any three out of five) (03)
1. What is the main function of the queen honeybee?
 2. Give the name of the product which honeybees make from nectar?
 3. The Outer layer of a pearl is called
 4. Which stage of the silkworm lifecycle produces silk?
 5. is the food of mulberry silk worm?
- Que.3(A) Answer the following questions. (Any one out of two) (07)
1. Describe Keystone species with suitable examples.
 2. Describe Jim Corbett National Park.
- Que.3(B) Answer the following questions. (Any one out of two) (04)
1. Write a short note on any two Biodiversity Hotspot.
 2. Write a short note on WWF.
- Que.3(C) Answer the following questions. (Any three out of five) (03)
1. Define: Endemic species.
 2. Write any two names of endangered species of India.
 3. Give the examples of Ex-situ conservation.
 4. In which state is Dachigam Wildlife Sanctuary situated?
 5. Manas National Park located at
- Que.4(A) Answer the following questions. (Any one out of two) (07)
1. Describe Plasmid and YAC Vectors.
 2. Write a note on PCR technique in details.

- Que.4(B) Answer the following questions. (Any one out of two) (04)
1. Describe stem cells and their applications.
 2. Write a note on rDNA technology.
- Que.4(C) Answer the following questions. (Any three out of five) (03)
1. What is primary function of vectors?
 2. What is the function of restriction enzymes in rDNA technology?
 3. What is "rDNA" stand in the rDNA technology?
 4. What type of stem cells can differentiate into any cell type in the body?
 5. What is the first step in a PCR cycle?
- Que.5(A) Answer the following questions. (Any one out of two) (07)
1. Give a detail classification of toxicants.
 2. Write a note on mode of action of Pesticides in human.
- Que.5(B) Answer the following questions. (Any one out of two) (04)
1. Write a note on toxic effects of Arsenic.
 2. Write a note on application of toxicology.
- Que.5(C) Answer the following questions. (Any three out of five) (03)
1.is the study of the adverse effects of chemicals on living organisms called?
 2. Itai-Itai disease is caused by
 3. What is the primary mode of action of organophosphate pesticides?
 4. What is Chronic toxicity?
 5. Write any two long term effect of fluoride toxicity.
