

B.Sc. Semester - 5 (CBCS) Examination**Oct/Nov - 2022 (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 question (write any one out of two) (07)
1. Describe Nutritional requirement in fresh water fishes.
 2. Induced breeding through Pituitary extract in fresh water fishes.
- Que. 1 B) Answer the following question (write any one out of two) (04)
1. Write a short note on Dropsy and White Spot as fish diseases.
 2. Write a short note on any eight Fish by Product
- Que. 1 C) Answer the following question (write any three out of five) (03)
1. Give the name of preservation technique by maintaining low temperature.
 2. List out the physical factors affecting Inland Fisheries.
 3. List out various pond in Inland fisheries.
 4. Give the scientific name of Common Carp.
 5. Which micro organism responsible for Sliminess of skin in fishes?
- Que. 2 A) Answer the following question (Write any one out of two) (07)
1. Explain the pearl Industry.
 2. Describe the structure of Modern bee hive in Apiculture.
- Que. 2 B) Answer the following question (Write any one out of two) (04)
1. Write short note on the life cycle of *Bombyx mori*.
 2. Write short note on a process of insertion in pearl culture.
- Que. 2 C) Answer the following question (Write any three out of five) (03)
1. Glands which secrete wax in honey bees are present in which part of their body.
 2. Define Absconding behavior in Honey bees.
 3. Name the proteins present in silk fibre.
 4. Shine in pearl is due to secretion of _____ from mantle.
 5. Write the name of common specie of pearl oyster.
- Que. 3 A) Answer the following question (write any one out of two) (07)
1. Explain in details Ex Situ and In Situ conservation.
 2. Explain in detail – Jim Corbett and Ranthambhor National Park.
- Que. 3 B) Answer the following question (write any one out of two) (04)
1. Write a short note on Key stone species.
 2. Write a short note on Western Ghat Bio diversity Hot Spot.
- Que. 3 C) Answer the following question (write any three out of five) (03)
1. Make a list of Endemic Mammals of India.
 2. Which is the Prime species of Chilka Lake Sanctuary?
 3. Make a list of Fauna of Dachigam National Park.
 4. How many parties are sign treaty with CITES?
 5. _____ is the present president of IBWL.
- Que. 4 A) Answer the following question (Write any one out of two) (07)
1. Explain different types of stem cells based on potency of differentiation.
 2. Describe the origin of restriction enzymes.

- Que. 4 B) Answer the following question (Write any one out of two) (04)
1. Difference between isoschizomer and isocaudomers.
 2. Draw and label pBR322.
- Que. 4 C) A) Answer the following question (Write any three out of five) (03)
1. Vector is an agent which carries _____ into host cell.
 2. Write an example of selectable marker in vector.
 3. The term “Biotectnology” was coined by _____
 4. Name different steps involved in PCR technique.
 5. Write down the full form of “Cos” in Cosmid.
- Que. 5 A) Answer the following question (Write any one out of two) (07)
1. What is metal toxicity.Explain Arsenic toxicity.
 2. Define Xenobiotics and explain different ways of classifying toxicants giving suitable examples.
- Que. 5 B) Answer the following question (Write any one out of two) (04)
1. With the help of diagram explain the dose response relationship.
 2. Write short note on the mode of action of metals.
- Que. 5 C) Answer the following question (Write any three out of five) (03)
1. Bioaccumulation of toxicant is due to what reasons?
 2. In which type of toxicity effects are severe and immediate after exposure to toxicant.
 3. kyphosis is symptom of Fluoride toxicity-True/False.
 4. What are different ways by which the target molecule is altered by toxicant.
 5. Arsenic metal is known as _____ of kings.
