

B.Sc. Semester - 5 (Remedial) (CBCS) Examination**March/April-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) Write a note on Inland fisheries and explain the different types of ponds used in inland fisheries.
 - 2) Write a note on Nutrition in fish in details.
- Que.1(B) Answer the following questions. (Any one out of two) (04)**
- 1) Explain Induced breeding technique in development of aquaculture.
 - 2) Write a note on Fish by products.
- Que.1(C) Answer the following questions. (Any three out of five) (03)**
- 1) Define the term Aquaculture.
 - 2) Give the examples of fish feed used in aquaculture practices.
 - 3) Gill rot disease cause by organisms.
 - 4) Give the any two methods used in fish preservation.
 - 5) Isin Glass is a collagen derived from air bladder of fishes (True / False).
- Que.2(A) Answer the following questions. (Any one out of two) (07)**
- 1) Describe the process of pearl formation in details.
 - 2) Explain the process of Rearing of silk worm.
- Que.2(B) Answer the following questions. (Any one out of two) (04)**
- 1) Write a short note on procedure of apiculture.
 - 2) Describe the life cycle of mulberry silk worm.
- Que.2(C) Answer the following questions. (Any three out of five) (03)**
- 1) Which Indian Honey bee species used wildly in apiculture.
 - 2) The hypopharyngeal gland (the brood food gland) of young worker (nurse) bees secretes
 - 3) Pinctada is associated with formation of pearl (True / False).
 - 4) Who is referred as father of pearl industry?
 - 5) and Protein present in the Silk.
- Que.3(A) Answer the following questions. (Any one out of two) (07)**
- 1) Describe In-situ and Ex-situ conservation.
 - 2) Describe Jim Corbett and Kaziranga National Park.
- Que.3(B) Answer the following questions. (Any one out of two) (04)**
- Write a short note on Keystone species with any two examples.
2. Write a short note on Sanctuary: Chilka lake.
- Que.3(C) Answer the following questions. (Any three out of five) (03)**
- 1) Give the names of Biodiversity Hotspots present in India.
 - 2) Which term is used to categorise the species which is at the highest risk of extinction in near future?
 - 3) Biosphere Reserves are protected area where animal's lives in their natural habituated (True / False).
 - 4) Give the full form of WWF.
 - 5) In which state is Dachigam Wildlife Sanctuary situated?

- Que.4(A) Answer the following questions. (Any one out of two) (07)**
1) Write a short note on Restriction Enzymes.
2) What is Vector? Write a short note on any two vectors in details.
- Que.4(B) Answer the following questions. (Any one out of two) (04)**
1) What is Stem cell? Enlist the applications of stem cell.
2) Describe PCR technique with their applications.
- Que.4(C) Answer the following questions. (Any three out of five) (03)**
1) Vector Cosmid is formed with the help of Plasmid and Bacteriophage (True / False).
2) Which enzyme is known as molecular scissors?
3) Host controlled restriction is a phenomenon related to Organism.
4) A cell that can make copies of itself and make more specialized types of cells is known
5) The Taq DNA polymerase enzymes used in PCR is isolated from Bacteria.
- Que.5(A) Answer the following questions. (Any one out of two) (07)**
1) Write a note on Arsenic toxicity.
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) Give a classification of toxicants. Write a note on toxic effects of Fluoride.
2) Write a note on application of toxicology.
- Que.5(C) Answer the following questions. (Any three out of five) (03)**
1) Inhalation of gases, vapors, dusts or mists is most common route to enter toxic substance in body (True / False).
2) Excess amount of fluoride ions in drinking water affects which part and organs of body.
3) Define LD₅₀.
4) What is Chronic toxicity?
5) Itai-itai disease is caused by the toxicity of which element?
