

B.Sc. Semester - 5 (Remedial) (CBCS) Examination**March/April-2026 (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) Write a detailed note on Fish Byproduct.
 - 2) Explain induced breeding in Indian major carp.
- Que.1(B) Answer the following question (write any one out of two) (04)
- 1) Explain in detail: Post harvesting techniques in fishery
 - 2) Write a detailed note on any two diseases found in cultured Fish.
- Que.1(C) Answer the following question (write any three out of five) (03)
- 1) Give three names of Indian Major Carp species.
 - 2) Indian Major Carp requires torrential water, overcast and thunder storm weather for breeding. (True/False)
 - 3) Name the endocrine gland and its hormones used for induced breeding,
 - 4) Give name of two diseases caused by bacterial infection in fishes
 - 5) List out any three fish by product.
- Que.2(A) Answer the following question (write any one out of two) (07)
- 1) Describe life cycle of honey bee.
 - 2) Describe Rearing of silk worm.
- Que.2(B) Answer the following question (write any one out of two) (04)
- 1) Describe Procedure of apiculture.
 - 2) Describe pearl culture.
- Que.2(C) Answer the following question (write any three out of five) (03)
- 1) Which honey bee caste is infertile?
 - 2) What is the application of apiculture?
 - 3) Give the main by product of Apiculture.
 - 4) Can pearl oyster culture be carried out in fresh water? Yes /No
 - 5) "Reeling" is the process known in:
 - a) Apiculture
 - b) Sericulture
 - c) Pearl oyster culture
- Que.3(A) Answer the following question (write any one out of two) (07)
- 1) What is a biodiversity hotspot? Give a detailed account of any two biodiversity hotspots of India.
 - 2) Write a detailed note on *Ex-Situ* and *In-Situ* conservation practices with suitable examples.
- Que.3(B) Answer the following question (write any one out of two) (04)
- 1) Write a note on keystone species with appropriate examples.
 - 2) Give detailed accounts: Ranthambhore National Park
- Que.3(C) Answer the following question (write any three out of five) (03)
- 1) Lion tailed macaque is found in which biodiversity hotspot?
 - 2) Great Indian bustard is critically endangered species. True/False
 - 3) The last natural population of Hard ground barasingha is found in which of the National Park?
 - 4) Give the full form of CITES
 - 5) Captive breeding programs are examples of which type of conservation strategy?

- Que.4(A) Answer the following question (write any one out of two) (07)
- 1) Write a detailed note of YAC and BAC vectors.
 - 2) What is r-DNA technology? Explain in details about method and application.
- Que.4(B) Answer the following question (write any one out of two) (04)
- 1) Write a short note on PCR technique.
 - 2) Explain: Types of Stem Cells
- Que.4(C) Answer the following question (write any three out of five) (03)
- 1) Give two names of restriction enzymes
 - 2) What is the full form of PCR
 - 3) Name the steps involved in rDNA technology
 - 4) Give the full name of three vectors
 - 5) Embryonic stem cells are derived from which tissue/organ/embryonic stage?
- Que.5(A) Answer the following question (write any one out of two) (07)
- 1) What is toxicity? Explain arsenic toxicity and its impacts on human health.
 - 2) Write a detailed note on the different types of pesticides.
- Que.5(B) Answer the following question (write any one out of two) (04)
- 1) Write a short note on the metal toxicants.
 - 2) Explain briefly about fluoride toxicity.
- Que.5(C) Answer the following question (write any three out of five) (03)
- 1) Define Chronic Toxicity
 - 2) Write any two symptoms of arsenic poisoning.
 - 3) Define: Point Sources
 - 4) What are the sources of toxicant entry in the body?
 - 5) Give name of two metal toxicants.
