

B.Sc. Semester - 5 (Remedial) (CBCS) Examination**March/April-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. (Any One Out of Two)** (07)
1. Different types of pond in Inland fisheries.
 2. Describe in detail induced breeding in carp fisheries.
- Que-1 (B) **Answer the following question. (Any One Out of Two)** (04)
1. Write a short note on Dropsy and Gill Rot fish diseases.
 2. Describe in detail role of energy nutrient for fishes.
- Que-1 (C) **Answer the following question. (Any Three Out of Five)** (03)
1. Name the fish preservation methods by maintain high temperature.
 2. Uses of Fish liver Oil.
 3. Isin Glass is obtain from _____ organ of fish.
 4. Give the name of different freezing fish preservation methods.
 5. What is Ichthyology?
- Que-2 (A) **Answer the following question. (Any One Out of Two)** (07)
1. Explain the steps performed in pearl industry
 2. Write in detail diseases of silkworm
- Que-2 (B) **Answer the following question. (Any One Out of Two)** (04)
1. Write short note on the enemies of honey bees in apiculture
 2. Write short note on post-cocoon processing.
- Que-2 (C) **Answer the following question. (Any Three Out of Five)** (03)
1. What is Swarming behavior in Honey bees
 2. Name various castes in honey bees.
 3. _____ is most common disease in silkworm
 4. Nacreous in pearl oyster is secreted by _____ body part of it
 5. Kokich Mikimoto name is related to which culture.
- Que-3 (A) **Answer the following question. (Any One Out of Two)** (07)
1. Describe Endemic Species of India.
 2. Explain in detail Key Stone Species.
- Que-3 (B) **Answer the following question. (Any One Out of Two)** (04)
1. Mention the Kanha and Ranthambhor National Park.
 2. Give difference between In-situ & Ex-situ conservation.
- Que-3 (C) **Answer the following question. (Any Three Out of Five)** (03)
1. What is the location and exclusive species of Kaziranga Nation Park?
 2. Which states are lies in Western Ghat Biodiversity Hotsopt?
 3. Symbol of Giant Panda is associated with the _____ organization.
 4. Who is the present chairperson of IBWL?
 5. Write a full form of CITES.
- Que-4 (A) **Answer the following question. (Any One Out of Two)** (07)
1. Explain restriction enzymes.
 2. Describe recombinant DNA technology.

- Que-4 (B) **Answer the following question. (Any One Out of Two)** (04)
1. Explain PCR technique by diagram.
 2. Draw and label pBR322 vector.
- Que-4 (C) **Answer the following question. (Any Three Out of Five)** (03)
1. Write an example of shuttle vector.
 2. Name the father of Biotechnology.
 3. Restriction enzyme are also known as_____.
 4. Expand *EcoRI* Restriction enzyme
 5. What is first step of rDNA technology.
- Que-5 (A) **Answer the following question. (Any One Out of Two)** (07)
1. Define metal toxicity and write the toxic effects of Cadmium
 2. Describe toxicokinetics in toxicological process
- Que-5 (B) **Answer the following question. (Any One Out of Two)** (04)
1. Write a short note on mode of action of Pesticides.
 2. Write a short note on the dose response relationship in toxicology.
- Que-5 (C) **Answer the following question. (Any Three Out of Five) ??????** (03)
1. Fat soluble toxicants accumulate more easily inside body than that of water soluble substance (True /False).
 2. What is chronic toxicity
 3. Arsenic is known as_____of kings.
 4. Lordosis is observed in which type of metal toxicity
 5. What are different ways by which the target molecule is altered by toxicant.
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