

B.Sc. Semester - 5 (Remedial) (CBCS) Examination**Feb/Mar. -2021 (NEW COURSE)****Fisheries Biology, Animal Husbandry, Wildlife, Biotechnology and Toxicology
(Core)****Time: 1:30 Hours****Marks: 42****Instructions:**

1. Figures to the right indicate marks.
 2. There are five questions in the question paper.
 3. Answer any three of the following questions.
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Que. 1 A) Attempt any one of the following (07)

1. Explain in detail nutrition in fish
2. Describe in detail induced breeding in carp fisheries.

Que. 1 B) Attempt any one of the following (04)

1. Write a short note on fish diseases.
2. Describe various pond in inland fisheries

Que. 1 C) Attempt any three of the following (03)

1. make a list of the Freezing methods of fish preservation .
2. What are different uses of fish oil.
3. Causal organism for white spot diseases in fishes.
4. Fish glue as a by product.
5. At which temperature and pressure canning of fish is done?.

Que. 2 A) Attempt any one of the following (07)

1. Describe in detail the post-cocoon processing.
2. What is nacre. Explain the process of pearl formation.

Que. 2 B) Attempt any one of the following (04)

1. Modern appliances used for honey extraction.
2. Draw only vertical section of oyster shell.

Que. 2 C) Attempt any three of the following (03)

1. Benefits of honey bees.
2. In honey bees the drones (males) are produced from _____ egg.
3. Nacreous layer is also known as mother of pearl-True/False.
4. Who stands first in the world for pearl production.
5. Composition of Silk.

Que. 3 A) Attempt any one of the following (07)

- 1.. Mention the Kaziranga and Jim Corbett National Park.
2. Explain in detail Biodiversity hot spot.

Que. 3 B) Attempt any one of the following (04)

1. Explain in detail in-situ and ex-situ conservation.
2. Write short note on Key stone Species

Que. 3 C) Attempt any three of the following (03)

1. What is the location and exclusive species of periyar sanctuary.
2. Famous Machhali tigress is associated with _____National Park.
3. Animal honored in logo of WWF is_____.
4. Write any five endemic birds of India
5. Write a Full Form of and Head Quarter of CITES.

Que. 4 A) Attempt any one of the following (07)

1. What are different types of stem cells based on differentiation and potency of the cell.
2. Explain the PCR technique and its application.

Que. 4 B) Attempt any one of the following (04)

1. What are restriction enzymes and their types
2. Schematic diagram of pUC19

Que. 4C) Attempt any three of the following (03)

1. Bolivar and Rodriguez constructed which vector.
2. _____RE cuts DNA at random far from their recognition sequences.
3. Somatic stem cells are derived from mature tissue.-True/False
4. What is Taq Polymerase.
5. Name the Scientists who invented the rDNA technology

Que. 5 A) Attempt any one of the following (07)

1. What is a toxicant. Write the toxic effects of Arsenic.
2. Explain mode of action of metals on organisms.

Que. 5 B) Attempt any one of the following (04)

1. Based on target organ classify toxicants.
2. What is toxicodynamics in toxicological process.

Que. 5 C) Attempt any three of the following (03)

1. Name any two examples of plant toxicant.
2. Define acute toxicity.
3. Biomagnification is a process in which the concentration of toxic chemical increases as it passes up the food chain. True/False
4. What is lordosis.
5. What are Mee's Aldrich lines.
