

B.Sc. Semester - 5 (CBCS) Examination**December -2020 (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 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 byproduct.
2. Describe in detail inland fisheries

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

1. Name the fish preservation methods by maintain low temperature.
2. write any two precautionary steps against Gill rot..
3. Causal organism for Dropsy in fishes.
4. Treatments for costiasis in inland fishes.
5. Make list of fishes which rear in Gujarat(Inland Fisheries) .

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

1. With the help of schematic diagram explain the process of pearl formation.
2. Explain Life history of honey bees.

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

1. Life history of Mulberry silkworm.
2. Write a short note on rearing of oyster.

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

1. Define nuptial flight
2. Honey bee queen is specified for _____
3. What is lingha pearl?
4. Half pearls are also known as mabes –True/ False
5. Mulberry, munga, oak and tussar all the four varieties of silk are present in which single country

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

1. Describe conservation methods of biodiversity(in-situ &ex-situ).
2. Explain in detail Key Stone Species.

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

1. Mention the Kaziranga and Dachigam National Park.
2. Write short note on endemic mammals of India.

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

1. What is the location and exclusive species of Bharatpur Bird Sanctuary.
2. Write a criteria to a declare Biodiversity hot spot.
3. Give the name of present president of WWF.
4. Write two achievement of IBWL.
5. Write a full form of CITES.

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

1. What is bacteriophage. Explain modification system used by lambda phage.
2. Explain the rDNA technology with the help of diagram.

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

1. Schematic diagram of pBR322 vector.
2. Difference between isoschizomer and neoschizomer.

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

1. Which antibiotic resistance is present in pBR322.
2. _____ RE cuts the sequence within the recognition sequence.
3. Define iPSC.
4. Denaturation step in PCR takes place at 65°C - True/False.
5. Application of rDNA technology.

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

1. With the help of diagram explain mode of action of pesticides.
2. Define toxicant and write the toxic effects of Cadmium.

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

1. Explain dose response relationship.
2. What is toxicokinesis in toxicological process.

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

1. Name any two examples of Neurotoxins.
2. Define chronic toxicity
3. Define LC₅₀.
4. What is kyphosis.
5. Desquamation of skin is symptom of Arsenic toxicity.-True/False
