

B.Sc. Semester - 5 (Remedial) (CBCS) Examination**March/April-2023 (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. Describe the process of Pituitary Hypophysation in Indian Major Carp.
 2. Describe Post harvesting techniques.
- Que. 1 B) Answer the following question (write any one out of two) (04)
1. Write a short note on any six Fish byproduct.
 2. Write a short note on various types of Ponds in Inland Fisheries.
- Que. 1 C) Answer the following question (write any three out of five) (03)
1. Soft, bulging abdomen is the characteristics of _____ fish disease.
 2. Which fungus is responsible for Gill Rot in fish?
 3. Which country is pioneer in Culture Fresh water Fishes?
 4. Floating Palate has more nutrition value than Compact palate. True/False
 5. Bombay Duck is generally preserved by _____ method.
- Que. 2 A) Answer the following question (Write any one out of two) (07)
1. Describe various diseases of silkworm.
 2. Describe in detail the steps performed in pearl industry.
- Que. 2 B) Answer the following question (Write any one out of two) (04)
1. Write a short note on the enemies of honey bees in apiculture.
 2. Write a short note on post-cocoon processing .
- Que. 2 C) Answer the following question (Write any three out of five) (03)
1. Pebrine disease affect which organism.
 2. _____ species of honey bee produces maximum amount of bees wax.
 3. Define Swarming.
 4. Shine in pearl is due to secretion of nacreous from which body part of oyster.
 5. Kokichi Mikimoto is father of _____.
- Que. 3 A) Answer the following question (write any one out of two) (07)
1. Explain in details Ex Situ and In Situ conservation.
 2. Explain in detail – Jim Corbbat and Kaziranga National Park.
- Que. 3 B) Answer the following question (write any one out of two) (04)
1. Write a short note on Key stone species.
 2. Write a short note on Western Ghat Bio diversity Hot Spot.
- Que. 3 C) Answer the following question (write any three out of five) (03)
1. Make a list of Endemic Aves of India.
 2. Which is the Prime species of Dachigam Sanctuary?
 3. Make a list of Fauna of Periyar National Park.
 4. How many countries are sign treaty with CITES?
 5. _____ is the Head quarter of WWF.
- Que. 4 A) Answer the following question (Write any one out of two) (07)
1. Explain the origin of restriction enzymes.
 2. Describe the recombinant DNA technology.

Que. 4 B) Answer the following question (Write any one out of two) (04)

1. Write a short note on PCR technique.
2. Draw and label pBR322 vector.

Que. 4 C) A) Answer the following question (Write any three out of five) (03)

1. YAC is an example of _____ vector.
2. Paul Berg is father of _____.
3. Expand *EcoRI* Restriction enzyme.
4. What is first step of rDNA technology.
5. Restriction enzyme are also known as endonucleases. (True/False).

Que. 5 A) Answer the following question (Write any one out of two) (07)

1. Define metal toxicity and write the toxic effects of Arsenic.
2. Explain toxicokinetics step in toxicological process.

Que. 5 B) Answer the following question (Write any one out of two) (04)

1. Write a short note on mode of action of Pesticides.
2. With the help of diagram explain dose response relationship.

Que. 5 C) Answer the following question (Write any three out of five) (03)

1. Enlist any two toxic heavy metals.
2. _____ soluble toxicants accumulate more easily inside body than that of water soluble substance.
3. Define chronic toxicity.
4. Lordosis is a symptom of cadmium toxicity(True /False)
5. What are different ways by which the target molecule is altered by toxicant?
