

B.Sc. Semester - 5 (Remedial) (CBCS) Examination**Feb/Mar. -2021 (OLD COURSE)****FISHERIES BIOLOGY, ANIMAL HUSBANDRY, WILD LIFE, BIOTECHNOLOGY, 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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Q.1(A) Answer the following (Any one out of two) (07)

1. Induced breeding in fresh water fishes.
2. Fish preservation method by decreasing temperature.

Q.1(B) Attempt any one (out of two) (04)

1. Dropsy and Ichthyophthiriasis as fish disease.
2. Fish oil, fish fertilizer and fish meal as by product.

Q.1(C) Attempt any three (out of five) (03)

1. Which organism is responsible for gill rot disease?
2. Fish glue as fish by product.
3. What is Ichthyology?
4. Give a scientific name of Indian major carp.
5. Which Zooplanktons are given as love food inland fisheries?

Q.2(A) Answer the following (Any one out of two) (07)

1. Give an account of rearing of mulberry silk worm.
2. Give an account of life history of Honey bee.

Q.2(B) Attempt any one (out of two) (04)

1. Composition and economic importance of silk.
2. Describe the methods of bee – keeping.

Q.2(C) Attempt any three (out of five) (03)

1. What is stiffling?
2. Give scientific name of Tushar silk moth.
3. The length of Queen honey bee of *Apis indica* is _____mm.
4. Define nuptial flight in honey bee.
5. Give the name of protozoan diseases in silk worm.

Q.3(A) Answer the following any one (out of two) (07)

1. Jim Corbett and Kaziranga National Park.
2. Ex situ and In situ conservation.

Q.3(B) Attempt any one (out of two) (04)

1. Key stone species with suitable examples.
2. World Wildlife Fund for Nature (WWF).

- Q.3(C) Attempt any three (out of five) (03)
1. Give the scientific name any three endangered mammals of India?
 2. Give the full form of CITES.
 3. Write avian fauna of keoldev sanctuary.
 4. Give the location and area of periyar national park.
 5. Major achievement of IBWL.
- Q.4(A) Answer the following any one (out of two) (07)
1. Describe restriction enzyme with suitable example.
 2. Define bacteriophage and explain lysogenic and Lytic cycle.
- Q.4(B) Attempt any one (out of two) (04)
1. Describe BAC and YAC vectors.
 2. Describe the process of cloning.
- Q.4(C) Attempt any three (out of five) (03)
1. Any two difference between chromosomal DNA and plasmid DNA.
 2. λ (lamda) genome is approximately _____ kb in length.
 3. E co RI digestion produce _____ ends.
 4. Define prophage.
 5. Give the source of Bam III enzyme.
- Q.5(A) Answer the following any one (out of two) (07)
1. Classify toxicants based on origin.
 2. Write in detail the absorption of toxicants.
- Q.5(B) Attempt any one (out of two) (04)
1. Give detail effects of lead toxicity.
 2. Describe in detail effects of Lead toxicity.
- Q.5(C) Attempt any three (out of five) (03)
1. Define LC so.
 2. Who is considered as father of toxicity.
 3. What is the most common route of entry for toxic substance.
 4. Aflatoxin is produced by fungus._____.
 5. Write name of any two long term effect of fluoride toxicity.
