

B.Sc. Semester - 5 (CBCS) Examination**Oct/Nov. - 2022(Old Course)****FISHERIES BIOLOGY, ANIMAL HUSBANDRY, WILD LIFE,
BIOTECHNOLOGY, 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 Nutrition for Fish.
 2. Describe post harvesting Technique.
- Que. 1 B) Answer the following question (Write any one out of two) (04)
1. Write a short note on induced breeding.
 2. Protozoan Diseases in fish culture.
- Que. 1 C) Answer the following question (Write any three out of five) (03)
1. Write a two uses of Fish oil.
 2. Make a list of chemical factors that affect Inland Fisheries.
 3. What is Ichthyology.
 4. Isin Glass is obtained from _____ part of fish.
 5. Which micro organism is responsible for Dropsy?
- Que. 2 A) Answer the following question (Write any one out of two) (07)
1. Explain the process of Sericulture.
 2. Describe the modern method of Apiculture.
- Que. 2 B) Answer the following question (Write any one out of two) (04)
1. Write a short note on the life cycle of *Bombyx mori*.
 2. Write a short note on criteria for selection of bees for Apiculture.
- Que. 2 C) Answer the following question (Write any three out of five) (03)
1. Name any two plants with good source of nectar and honey.
 2. Bee keeper in apiculture is known as _____.
 3. The flight of the one drone with several queens in air for copulation is called as nuptial flight. True/False.
 4. Adult form of silkworm is known as _____.
 5. Name the protein components present in silk fiber.
- Que. 3 A) Answer the following question (Write any one out of two) (07)
1. Describe in detail Key Stone species.
 2. Describe Jim Corbbat and Kanha National Park.
- Que. 3 B) Answer the following question (Write any one out of two) (04)
1. Difference between In Situ and Ex Situ conservation.
 2. Write a short note on Endangered Mammals of India.
- Que. 3 C) Answer the following question (Write any three out of five) (03)
1. Which Biodiversity Hot Spot pass through Maharashtra?
 2. Write any two achievement of IBWL.
 3. List the Prime animals of Kaziranga National Park.
 4. Keoladeo Bird Sanctuary is also including in _____ site.
 5. Which agency is controlling Trade in Wildlife trophy and articles?

- Que. 4 A) Answer the following question (Write any one out of two) (07)
1. Describe the gene cloning process citing some examples.
 2. Explain the origin of restriction enzymes.
- Que. 4 B) Answer the following question (Write any one out of two) (04)
1. Write a short note on isocaudomers and isoschizomer
 2. Write a short note on properties of a vector.
- Que. 4 C) Answer the following question (Write any three out of five) (03)
1. Antibiotic resistance gene is an example of selectable marker in vector. True/False
 2. Name the Bacterium from which *EcoRI* restriction enzyme is derived.
 3. Process of using living organism or their enzymes or molecules to obtain products for mankind is known as_____.
 4. Full form of SCNT.
 5. Define vector.
- Que. 5 A) Answer the following question (Write any one out of two) (07)
1. Define metal toxicity and explain Arsenic toxicity.
 2. Classify toxicants giving suitable examples.
- Que. 5 B) Answer the following question (Write any one out of two) (04)
1. Write a short note on causes and symptoms of fluoride toxicity.
 2. With the help of graphical representation explain dose response relationship.
- Que. 5 C) Answer the following question (Write any three out of five) (03)
1. Define LC_{50} .
 2. Study of interaction of substance with a biological system and depiction of response is known as_____.
 3. When toxicant is taken up faster than it can be used or chemical is not broken down by organisms metabolism, the process is called as_____.
 4. Write the medical term used for outward curving of backbone due to fluoride toxicity.
 5. Which metal is considered as poison of kings.
