

B.Sc. Semester - 5 (CBCS) Examination**July-2025 (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 questions. (Any one out of two) (07)**
- 1) Describe Inland fisheries.
 - 2) Describe different fish by-product in details.
- Que.1(B) Answer the following questions. (Any one out of two) (04)**
- 1) Write a short note on Induced breeding.
 - 2) Write a note on fish diseases: White spot and Gill rot.
- Que.1(C) Answer the following questions. (Any three out of five) (03)**
- 1) Which country is the pioneer in Aquaculture?
 - 2) Give the name of Indian Major Carp.
 - 3) Costiasis disease cause by organisms
 - 4) Liver oil is obtained from fish.
 - 5) List out any two post harvesting technology in aquaculture.
- Que.2(A) Answer the following questions. (Any one out of two) (07)**
- 1) Describe life cycle of honey-bee.
 - 2) Describe the process of rearing of mulberry silk worm.
- Que.2(B) Answer the following questions. (Any one out of two) (04)**
- 1) Describe Procedure of Apiculture in honey-bee.
 - 2) Write a short note on life history of mulberry silk worm.
- Que.2(C) Answer the following questions. (Any three out of five) (03)**
- 1) products are obtained from Honey bees.
 - 2) Royal jelly is secreted by bees.
 - 3) What is the role of salivary gland in silk worm?
 - 4) stage of silk worm the silk is obtained.
 - 5) Give the scientific name of Mulberry Silk worm.
- Que.3(A) Answer the following questions. (Any one out of two) (07)**
- 1) Write a note on In-situ and Ex-situ conservation.
 - 2) Explain in detail Kaziranga National Park.
- Que.3(B) Answer the following questions. (Any one out of two) (04)**
- 1) Write a short note on any two biodiversity Hotspot.
 - 2) Write a short note on Dachigam Sanctuary.
- Que.3(C) Answer the following questions. (Any three out of five) (03)**
- 1) Give any two examples of Keystone species.
 - 2) Give the examples of In-situ conservation.
 - 3) Full form of WWF is
 - 4) Jim Corbett National park located at
 - 5) Define: Sanctuary.

- Que.4(A) Answer the following questions. (Any one out of two) (07)**
- 1) Describe different types of Restriction Enzymes.
 - 2) Describe general steps of cloning.
- Que.4(B) Answer the following questions. (Any one out of two) (04)**
- 1) Write Vectors YAC and BAC.
 - 2) Write a note on Bacteriophage as vector.
- Que.4(C) Answer the following questions. (Any three out of five) (03)**
- 1) Define: Plasmid.
 - 2) λ (lamda) genom is approximately kb in length.
 - 3) Which enzyme known as Molecular scissors?
 - 4) Give any two example of restriction enzyme.
 - 5) Define: Cloning.
- Que.5(A) Answer the following questions. (Any one out of two) (07)**
- 1) Give a detail classification of toxicants.
 - 2) Describe toxicity of Lead.
- Que.5(B) Answer the following questions. (Any one out of two) (04)**
- 1) Write a note on toxic effects of Flouride.
 - 2) Write a note on absorption site of toxicants.
- Que.5(C) Answer the following questions. (Any three out of five) (03)**
- 1) Who is considered as Father of toxicology?
 - 2) What is most common route to enter toxic substance in body.
 - 3) List out any three Metal toxicants.
 - 4) Give any two characteristics of exposure.
 - 5) Write any two long term toxic effect of Arsenic to human.
