

B.Sc. Semester - 5 (Remedial) (CBCS) Examination**March/April-2024 (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 questions. (Any one out of two) (07)
- 1) Explain the process of Induced breeding in Fishes.
 - 2) Describe different fish by-product in details.
- Que.1(B) Answer the following questions. (Any one out of two) (04)
- 1) Write a note on any two ponds related to inland fisheries.
 - 2) Write a note on fish diseases: White spot and Dropsy.
- Que.1(C) Answer the following questions. (Any three out of five) (03)
- 1) List out any two examples of Indian Major Carps.
 - 2) In indian major carp, which hormones are useful in induced breeding?
 - 3) Costiasis disease cause by organisms.
 - 4) Which traditional methods are used to removal of moisture in fish preservation?
 - 5) Liver oil is obtained from fishes.
- Que.2(A) Answer the following questions. (Any one out of two) (07)
- 1) Describe the life cycle of honey bee.
 - 2) Describe the life cycle of mulberry silk worm.
- Que.2(B) Answer the following questions. (Any one out of two) (04)
- 1) Write a short note on process of pearl formation.
 - 2) Write a short note on process of rearing of mulberry silk worm.
- Que.2(C) Answer the following questions. (Any three out of five) (03)
- 1) Give scientific name of Indian Honey bee.
 - 2) Royal jelly is secreted by bees.
 - 3) The best quality of pearls is known as.....
 - 4) From which stage of silk worm the silk is obtained.
 - 5) is the food of mulberry silk worm?
- Que.3(A) Answer the following questions. (Any one out of two) (07)
- 1) Describe Keystone species with suitable examples.
 - 2) Describe Ranthambhor 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 WWF.
- Que.3(C) Answer the following questions. (Any three out of five) (03)
- 1) Define: Endemic species
 - 2) Give the examples of Ex-situ conservation.
 - 3) Full form of CITES is
 - 4) The head quarter of WWF is located at
 - 5) Kaziranga National park located at.....and famous for
- Que.4(A) Answer the following questions. (Any one out of two) (07)
- 1) Write a comparative account of Type I, Type II and Type III Restriction Enzymes.
 - 2) Write a short note on PCR technique in details.

- Que.4(B) Answer the following questions. (Any one out of two) (04)
- 1) Write different types of stem cells and enlist their applications.
 - 2) Write a note on rDNA technology.
- Que.4(C) Answer the following questions. (Any three out of five) (03)
- 1) Full form of pBR322 vector.
 - 2) Type I restriction enzyme cut sequence base pair away from reorganization site.
 - 3) Who is a father of rDNA technology?
 - 4) Embryonic stem cells are type of stem cells.
 - 5) Who first discovered the PCR?
- Que.5(A) Answer the following questions. (Any one out of two) (07)
- 1) Give a detail classification of toxicants.
 - 2) Write a note on mode of action of Pesticides in human.
- Que.5(B) Answer the following questions. (Any one out of two) (04)
- 1) Write a note on toxic effects of Arsenic.
 - 2) Write a note on application of toxicology.
- Que.5(C) Answer the following questions. (Any three out of five) (03)
- 1) What is most common route to enter toxic substance in body.
 - 2) Who is considered as Father of Modern toxicology?
 - 3) Define LC_{50} .
 - 4) What is Acute toxicity?
 - 5) Write any two long term effect of fluoride toxicity.
