

B.Sc. Semester - 6 (CBCS) Examination**July-2025 (OLD COURSE)****REPROD. PHYSIO, EMBRYO,EVO, ENV POLLUTION AND ECOLOGY(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 (Any one out of two) (07)
1. Explain detailed structure of mammary gland.
 2. Explain detailed structure of mammalian sperm.
- Que-1(B) Answer the following question (Any one out of two) (04)
1. Write a short note on Ova.
 2. Write a note on spermatogenesis.
- Que-1(C) Answer the following question (Any three out of five) (03)
1. What is the function of an ovum?
 2. Write down three parts of an sperm.
 3. Anterior portion of the sperm is known as _____.
 4. What is the role of mitochondria in a sperm?
 5. What is the function of mammary gland?
- Que-2(A) Answer the following question (Any one out of two) (07)
1. Write a detailed note on Regeneration.
 2. Explain in detail: 36-hours of chick embryo.
- Que-2(B) Answer the following question (Any one out of two) (04)
1. Write a short note on the types of placentas
 2. Explain incomplete parthenogenesis.
- Que-2(C) Answer the following question (Any three out of five) (03)
1. What is cleavage?
 2. What is the function of Chalaza in avian egg?
 3. Natural parthenogenesis also known as _____.
 4. What is implantation?
 5. What kind of regeneration is seen in hydra?
- Que-3(A) Answer the following question (Any one out of two) (07)
1. Describe the Ethiopian realm with its characteristic flora and fauna.
 2. Write detailed notes: a) Gene Pool b) Genetic Drift.
- Que-3(B) Answer the following question (Any one out of two) (04)
1. Write a short note Devonian Period.
 2. Write name of at least two- two animals of Neotropical and Nearctic region.
- Que-3(C) Answer the following question (Any three out of five) (03)
1. Define: Gene flow.
 2. Kangaroos are found in which zoogeographical realm?
 3. Indian part of Oriental region is separated from Palearctic realm by which physical barrier?
 4. Lung fishes evolved during which geological period?
 5. Define : micro evolution.

- Que-4(A) Answer the following question (Any one out of two) (07)
1. Write a detailed note on air pollution.
 2. Write a detailed note on water pollution.
- Que-4(B) Answer the following question (Any one out of two) (04)
1. Write a short note on soil pollution.
 2. Explain: Green house effect.
- Que-4(C) Answer the following question (Any three out of five) (03)
1. Name the soil horizons from top to bottom.
 2. Give the names of three primary air pollutants.
 3. Methane and Chlorofluorocarbon are example of _____ gases.
 4. Arsenic pollution results due to overexploiting ground water. True/False
 5. Give any two contributors of soil pollution.
- Que-5(A) Answer the following question (Any one out of two) (07)
1. Explain nitrogen cycle in details.
 2. What is succession? Describe different types of succession in detail.
- Que-5(B) Answer the following question (Any one out of two) (04)
1. Explain Natality and Mortality in short.
 2. Write a note on energy flow
- Que-5(C) Answer the following question (Any three out of five) (03)
1. Succession in water body is called _____.
 2. Which is main source of energy in Detritus Food Chain?
 3. Which kind of bacteria have significant role in nitrogen cycle?
 4. Give three names of the population dispersion patterns.
 5. What is Retrogressive Succession?
