

B.Sc. Semester - 6 (CBCS) Examination**March/April-2023 (OLD COURSE)****REPROD. PHYSIO, EMBRYO, EVO, ENV POLLUTION AND ECOLOGY(CORE)****Time: 2:30 Hours****Marks: 70****Instructions:**

1. All questions are compulsory.s
2. Figures to the right indicate marks.

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- Q.1(A) Answer the following question. (Any One) (07)**
1. Explain the Oogenesis process in detail.
 2. Describe the structure and function of mammary gland.
- Q.1(B) Answer the following questions. (Any One) (04)**
1. Draw the structure of mature Graffian follicle.
 2. Write a short note on the process of spermatogenesis.
- Q.1(C) Answer the following questions. (Any Three) (03)**
1. Name the hormone which helps in rupture of graffian follicle.
 2. _____ is commonly called as mitochondrial spiral.
 3. Progesterone is released by corpus luteum.(True /False)
 4. _____are atrophied during menopause.
 5. Acrosome is present in the tail part of sperm.(True/False)
- Q.2(A) Answer the following question. (Any One) (07)**
1. Explain the process of Morphallaxis regeneration.
 2. Draw and label 72 hours chick embryo
- Q.2(B) Answer the following questions. (Any One) (04)**
1. Different types of placenta.
 2. Draw and label 33 hours chick embryo
- Q.2(C) Answer the following questions. (Any Three) (03)**
1. Structure in the egg which holds the egg or yolk so that it doesn't gets smashed inside is_____.
 2. Artificial type of _____in an egg can be induced with the help of needle.
 3. Production of embryo from_____ gamete without union of male gamete is known as parthenogenesis.
 4. Human chorionic gonadotropin (hCG) is secreted by placenta. (True/False)
 5. Name the type of stem cells helping in regular renewal of blood cells in our body.
- Q.3(A) Answer the following question. (Any One) (07)**
1. Explain Palaeozoic era.
 2. Define Zoogeography. Describe Oriental region in detail.
- Q.3(B) Answer the following questions. (Any One) (04)**
1. Write short note on Jurassic period.
 2. Write a short note on Ethiopian region.

- Q.3(C) Answer the following questions. (Any Three) (03)**
1. The chance fluctuation in allelic frequency from one generation to the next, including loss of alleles from the population is known as_____.
 2. Marsupials are found in Australian region. (True/False)
 3. Palearctic, Nearctic, Neotropical, Ethiopian, Oriental & Australian regions are example of_____regions.
 4. Give an example of microevolution.
 5. Evolution of birds from reptiles is an example of _____ evolution.
- Q.4(A) Answer the following question. (Any One) (07)**
1. What is Pollution? Explain Air pollution.
 2. Define Green House effect and explain it.
- Q.4(B) Answer the following questions. (Any One) (04)**
1. Write short note on factors affecting soil pollution.
 2. Write short note on Acid Rain.
- Q.4(C) Answer the following questions. (Any Three) (03)**
1. _____layer is present in stratosphere of atmosphere to prevent sun's ultraviolet radiation.
 2. Define Eutrophication.
 3. List out the chief sources of carbon monoxide.
 4. Which Green House Gas is responsible for Global Warming?
 5. What is humus?
- Q.5(A) Answer the following question. (Any One) (07)**
1. Define Population explaining the Survivorship curves.
 2. What is Succession? Give an account of succession process in a pond.
- Q.5(B) Answer the following questions. (Any One) (04)**
1. Write short note on age structure with pyramids.
 2. Explain any one sedimentary cycle.
- Q.5(C) Answer the following questions. (Any Three) (03)**
1. The final, terminal and more or less stabilised community in succession that is able to establish some sort of equilibrium with the environmental conditions of that area, termed as _____.
 2. Detritus food chain is also found in energy flow. (True/False)
 3. Give an example of atmospheric cycle.
 4. Define natality.
 5. In which population highly convex type of survivorship curve found?
