

**B.Sc. Semester - 2 (CBCS) Examination**  
**March/April - 2024 (As Per Syllabus Year-2016)**  
**ZOOLOGY (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) Give the answer of following question. (04)
- (1) Amphioxus belongs to which class?
  - (2) Write any two characters of class Reptilia.
  - (3) Blastulation is followed by which step in embryonic development of amphioxus?
  - (4) What is the function of Endostyle in Amphioxus?
- Que.1(B) Give the answer of following question. (write any one out of two) (02)
- (1) Write any two characters of class Amphibia with examples.
  - (2) Draw the labelled diagram of unfertilised ovum of amphioxus.
- Que.1(C) Give the answer of following question. (write any one out of two) (03)
- (1) Write general characters of class Mammalia.
  - (2) Write short note on Gastrulation of amphioxus.
- Que.1(D) Give the answer of following question. (write any one out of two) (05)
- (1) Classify superclass Pisces with suitable examples.
  - (2) Describe T.S. through Pharynx region of amphioxus.
- Que.2(A) Give the answer of following question. (04)
- (1) Write any two characters of multiple alleles.
  - (2) Which blood group is universal donor?
  - (3) What is Neo-Darwinism?
  - (4) Write two characters of Merychippus horse.
- Que.2(B) Give the answer of following question. (write any one out of two) (02)
- (1) Write genotypes of Agouti and Chinchilla.
  - (2) What are mold and cast fossils?
- Que.2(C) Give the answer of following question. (write any one out of two) (03)
- (1) Write a short note on types of fossils.
  - (2) Write a short note on Erythroblastosis foetalis.
- Que.2(D) Give the answer of following question. (write any one out of two) (05)
- (1) Describe phylogeny of horse.
  - (2) Write a note on blood groups in human.
- Que.3(A) Give the answer of following question. (04)
- (1) What is the function of bile salts in digestion?
  - (2) What is peristalsis movement?
  - (3) What is oogenesis?
  - (4) Write function of RBC.
- Que.3(B) Give the answer of following question. (write any one out of two) (02)
- (1) Write the name and function of different granulocytes.
  - (2) Where does the absorption of carbohydrates and lipids take place?

- Que.3(C) Give the answer of following question. (write any one out of two) (03)
- (1) Write short note on Spermatogenesis.
  - (2) Give name of any three blood coagulation factors with its function.
- Que.3(D) Give the answer of following question. (write any one out of two) (05)
- (1) Describe absorption of carbohydrate and protein.
  - (2) Describe composition of blood.
- Que.4(A) Give the answer of following question. (04)
- (1) Which protozoan is responsible for the disease Amebiasis?
  - (2) Flea responsible for which disease?
  - (3) List out the apparatus used in poultry house.
  - (4) Filariasis caused by which animal?
- Que.4(B) Give the answer of following question. (write any one out of two) (02)
- (1) Write the name of disease caused by Guinea worm and Round worm.
  - (2) Write function of any two apparatus used in poultry farm.
- Que.4(C) Give the answer of following question. (write any one out of two) (03)
- (1) Write short note on Human louse.
  - (2) Write a short note on Entamoeba.
- Que.4(D) Give the answer of following question. (write any one out of two) (05)
- (1) Describe lifecycle of Trypanosoma and disease caused by it.
  - (2) Write a note on types of poultry house.
- Que.5(A) Give the answer of following question. (04)
- (1) What is the average length of a menstrual cycle in human.
  - (2) What are the stages of the estrus cycle in cattle?
  - (3) What is the function of sebaceous glands in the integumentary system?
  - (4) How many chambers of heart are there in reptilia?
- Que.5(B) Give the answer of following question. (write any one out of two) (02)
- (1) What hormones are involved in regulating the menstrual cycle?
  - (2) Write name and function of different types of integumentary glands.
- Que.5(C) Give the answer of following question. (write any one out of two) (03)
- (1) Write a short note on Claws.
  - (2) Write a short note on horns.
- Que.5(D) Give the answer of following question. (write any one out of two) (05)
- (1) Describe evolution of heart in vertebrates.
  - (2) Describe menstrual cycle.

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