



DBX-003-1012020

Seat No. _____

B. Sc. (Sem. II) (CBCS) (W.E.F. 2016) Examination

July - 2022

Zoology : Paper - Z-02

Faculty Code : 003

Subject Code : 1012020

Time : $2\frac{1}{2}$ Hours]

[Total Marks : 70

- Instructions :** (1) Draw neat and labeled diagram wherever necessary.
(2) Figures to the right side indicate full marks for the question.
(3) Attend all five questions.

- 1 (a) Answer the following questions in short : 4
- (1) Electric ray fish is belongs to class ____ of pisces.
 - (2) ____ is commonly called flying dragon.
 - (3) Approximately how many gonads are present on each side in Amphioxus.
 - (4) In amphioxus the fertilization is external. (true or false)
- (b) Answer any one of the following question : 2
- (1) Explain unfertilized ovum of Amphioxus.
 - (2) Write any two characters of Gnathostomata.
- (c) Answer any one of the following question. 3
- (1) Write any four characters of protochordata.
 - (2) Explain gonads of Amphioxus.
- (d) Answer any one of the following question : 5
- (1) Write characters of Reptiles.
 - (2) Explain : holoblastic cleavage of Amphioxus.

- 2 (a) Answer the following questions in short : 4
- (1) Which type of Antigen and Antibody is present in 'A' blood group.
 - (2) Who gave the theory of natural selection ?
 - (3) In ___ rabbits the pigments are completely absent.
 - (4) ___ injection is used for the preventing of Erythroblastosis foetalis.
- (b) Answer any one of the following question : 2
- (1) Write reasons for incompleteness of fossils.
 - (2) What is Rh factor ?
- (c) Answer any one of the following question : 3
- (1) Explain : Types of fossils.
 - (2) Write characters of multiple alleles.
- (d) Answer any one of the following question : 5
- (1) Explain: ABO blood group.
 - (2) Explain: Phylogeny of horse.
- 3 (a) Answer the following questions in short : 4
- (1) Spermatogenesis occurs in the _____ tubules of the male testes.
 - (2) In blood, a fluid component is called as _____.
 - (3) The erythrocytes develop from the _____ of vertebrates.
 - (4) Which enzyme is involved in lipid digestion ?
- (b) Answer any one of the following question : 2
- (1) Write a note on Neutrophiles.
 - (2) What is Gametogenesis ?
- (c) Answer any one of the following question : 3
- (1) Explain : Absorption of protein.
 - (2) Explain : Blood platelets.

- (d) Answer any one of the following question : 5
- (1) Describe blood components in brief.
 - (2) Describe Oogenesis in brief.
- 4 (a) Answer the following questions in short : 4
- (1) Amoebiasis is caused by ____.
 - (2) Name the hosts in which Trypanosoma completes its life cycle.
 - (3) Which harmful parasite having jumping movement ?
 - (4) ____ are used to provide food.
- (b) Answer any one of the following question : 2
- (1) Explain : Brooders.
 - (2) Write the symptoms of filariasis.
- (c) Answer any one of the following question : 3
- (1) Write the prevention of Gambia fever.
 - (2) Explain : multiple deck method of poultry house.
- (d) Answer any one of the following question : 5
- (1) Describe fresh water aquarium in brief.
 - (2) Describe life cycle of Trypanosoma.
- 5 (a) Answer the following questions in short : 4
- (1) What is the average age of Menopause ?
 - (2) Name the animals having Hooves.
 - (3) In which phase woman's ovaries become inactive ?
 - (4) There is __ chambered heart in the Amphibians.
- (b) Answer any one of the following question. 2
- (1) Write the cause of Menopause.
 - (2) Explain : Epidermal derivatives.

(c) Answer any one of the following question : **3**

(1) Explain: Origin of heart.

(2) Explain : Hooves with example.

(d) Answer any one of the following question : **5**

(1) Describe comparison of heart between Amphioxus and Aves.

(2) Describe : Evolution of heart.
