



DCV-003-2011020

Seat No. _____

B. Sc. (Sem. I) (CBCS) (WEF-2019) Examination

August - 2022

Zoology : Paper Z-01

*(Non Chordates : Systematic, Forms and Functions, Cell
Biology & Genetics, Applied Zoology & Ecology)*

(New Course)

Faculty Code : 003

Subject Code : 2011020

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

[Total Marks : 70

- Instructions :** (1) Illustrate your answers with neat and labeled diagrams.
(2) Figures to the right side indicate full marks of question.
(3) Answer any five out of ten questions.

- 1 (A) Write in short : 4
(1) Plasmodium belongs to which class?
(2) The length of Leech?
(3) Scientific name of Hookworm?
(4) Give the name of larva of Coelenterata phylum shown during indirect development?
- (B) Describe : 2
(1) Characters of Class Ciliata.
- (C) Describe : 3
(1) Classify Leech with reasons.
- (D) Describe : 5
(1) Salient features of Phylum Coelenterata and Platyhelminthes.
- 2 (A) Write in short : 4
(1) Leech belongs to which Phylum?
(2) Peripetetus belongs to which class?

- (3) Length of Earthworm is approximately ____.
- (4) Which locomotory organ is present in phylum Echinodermata?
- (B) Describe : 2
- (1) Characters of Class Turbellaria.
- (C) Describe : 3
- (1) Classify Hydra with reasons.
- (D) Describe : 5
- (1) Salient features of Phylum Protozoa and Porifera.
- 3** (A) Write in short : 4
- (1) Cysticercus larva is commonly known as ____.
- (2) Which system is absent in Taenia solium?
- (3) Who is primary host of Taenia solium?
- (4) Who is Secondary host of Taenia solium?
- (B) Describe : 2
- (1) Neck of Taenia solium.
- (C) Describe : 3
- (1) Scolex of Taenia solium.
- (D) Draw labelled neat and clean diagram only : 5
- (1) Tapeworm reproductive system.
- 4** (A) Write in short : 4
- (1) Scientific name of Earthworm?
- (2) How many setae are present in each segment of Earthworm?
- (3) How many pairs of testes are present in Earthworm?
- (4) The clitellar region of Pheretima posthuma are situated in ____ segments?
- (B) Describe : 2
- (1) Function of Earthworm body setae.
- (C) Describe : 3
- (1) Earthworm septal nephredia.
- (D) Draw labelled neat and clean diagram only : 5
- (1) Earthworm Nervous system.
- 5** (A) Write in short : 4
- (1) Give the name of scientist who proposed Sandwich model of Plasma membrane.
- (2) Give any two function of Plasma membrane.

- (3) Full form of ATP.
- (4) Types of Endoplasmic reticulum only names.
- (B) Describe : **2**
- (1) Function of Endoplasmic reticulum.
- (C) Describe : **3**
- (1) Function of nucleus.
- (D) Describe : **5**
- (1) Structure and function of mitochondria
- 6** (A) Write in short : **4**
- (1) Give the genotypic ratio of incomplete dominance.
- (2) Give the possible blood group of child of having 'O' group parents.
- (3) Give the name of father of genetics.
- (4) Define Incomplete dominance.
- (B) Describe : **2**
- (1) Co-dominance.
- (C) Describe : **3**
- (1) Mendle's experiment - Mono hybrid cross.
- (D) Describe : **5**
- (1) Mendle's experiment -Di hybrid cross.
- 7** (A) Write in short : **4**
- (1) Give the scientific name of Pinworm.
- (2) Give the scientific name of Ascaris.
- (3) Give the name of disease caused by Filarial worm.
- (4) Give the name of disease caused by Round worm.
- (B) Describe : **2**
- (1) Describe symptoms and treatment of disease cause by Trypanosoma.
- (C) Describe : **3**
- (1) Describe causes and symptoms of disease cause by Pin worm.
- (D) Describe : **5**
- (1) Describe causes, symptoms and treatment of disease cause by Entamoeba.

- 8 (A) Write in short : 4
- (1) Feeder apparatus is used for _____ in poultry.
 - (2) A fertilized egg hatches after about _____ days of incubation.
 - (3) Brooder apparatus is used for _____ in poultry.
 - (4) Waterer apparatus is used for _____ in poultry.
- (B) Describe : 2
- (1) Give an introduction of poultry science.
- (C) Describe : 3
- (1) General account on poultry apparatus (any two)
- (D) Describe : 5
- (1) Describe Deep litter system in poultry.
- 9 (A) Write in short : 4
- (1) Define: primary consumer in ecosystem.
 - (2) Give names of abiotic factors.
 - (3) Give names of biotic factors.
 - (4) Define: Secondary consumer in ecosystem.
- (B) Describe : 2
- (1) Give a brief account on decomposers in ecosystem.
- (C) Describe : 3
- (1) Describe: Marine ecosystem.
- (D) Describe : 5
- (1) Describe: Fresh water ecosystem.
- 10 (A) Write in short : 4
- (1) Fishes are showing _____ adaptation.
 - (2) Camel is showing _____ adaptation.
 - (3) Give the example of Arboreal adaptation.
 - (4) Give the example of Volant adaptation.
- (B) Describe : 2
- (1) Describe any two characters/features of burrowing adaptation.
- (C) Describe : 3
- (1) Describe Arboreal adaptation.
- (D) Describe : 5
- (1) Describe primary aquatic adaptation.