

B.Sc. Semester - 1 (CBCS) Examination
Nov/Dec - 2022 (OLD COURSE)
ZOOLOGY (CORE)

Time: 2:30 Hours**Marks: 70****Instructions:**

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

Que. 1 (A) Give the answer of following question. (04)

- (1) Jointed appendages are the characteristics of which phylum?
- (2) Chiton belongs to which phylum?
- (3) Which phylum bears exclusively marine animals?
- (4) Give any two examples of phylum protozoa.

(B) Give the answer of following question (write any one out of two). (02)

- (1) Write any four characters of phylum Porifera.
- (2) Write any four characters of phylum Platyhelminthes.

(C) Give the answer of following question (write any one out of two). (03)

- (1) Classify with reason: Earthworm.
- (2) Classify with reason: Hydra.

(D) Give the answer of following question (write any one out of two). (05)

- (1) Classify phylum arthropoda up to class with suitable examples.
- (2) Classify phylum mollusca up to class with suitable examples.

Que. 2 (A) Give the answer of following question. (04)

- (1) Write the function of clitellum in earthworm.
- (2) Mosquito contains which types of mouthparts?
- (3) Who is the secondary host of *Taenia solium*?
- (4) Which system is absent in tapeworm?

(B) Give the answer of following question (write any one out of two). (02)

- (1) List out the types of nephridia found in earthworm?
- (2) Describe: Eggs of *Culex* mosquito.

(C) Give the answer of following question (write any one out of two). (03)

- (1) Draw labeled diagram of nervous system of Earthworm.
- (2) Describe: Mouthparts of female anopheles mosquito.

(D) Give the answer of following question (write any one out of two). (05)

- (1) Describe: Lifecycle of *Culex* mosquito.
- (2) Describe: Reproductive organs of *Taenia solium*.

Que. 3 (A) Give the answer of following question. (04)

- (1) Goblet cells are present in which organ?
- (2) Which enzyme is secreted by peptic cells of stomach?
- (3) Who discovered nuclei?
- (4) Which organ produce bile?

(B) Give the answer of following question (write any one out of two). (02)

- (1) Write any two functions of plasma membrane.
- (2) Write any two functions of Pancreas.

(C) Give the answer of following question (write any one out of two). (03)

- (1) Write functions of Endoplasmic reticulum.
- (2) Draw labelled diagram of T.S. passing through mammalian stomach.

(D) Give the answer of following question (write any one out of two). (05)

- (1) Describe histological structure and function of mammalian Intestine.
- (2) Describe: Mitochondria.

Que. 4 (A) Give the answer of following question. (04)

- (1) Producers depends on _____ for their food.
- (2) Who gave the term “Ecosystem”?
- (3) Which scales are the characteristics of Chondrichthyes?
- (4) Give the name of mechanized boat.

(B) Give the answer of following question (write any one out of two). (02)

- (1) Describe Hook and line.
- (2) Describe biotic factors of pond ecosystem.

(C) Give the answer of following question (write any one out of two). (03)

- (1) Describe fossorial adaptation.
- (2) Describe Lodhiyo boat.

(D) Give the answer of following question (write any one out of two). (05)

- (1) Explain in brief: Marine ecosystem.
- (2) Describe difference between Chondrichthyes and Osteichthyes.

Que. 5 (A) Give the answer of following question. (04)

- (1) Define the term “wildlife”.
- (2) Give scientific name of Asiatic lion.
- (3) Give the definition of Sanctuary.
- (4) Give location and area of Kutch desert wildlife sanctuary.

(B) Give the answer of following question (write any one out of two). (02)

- (1) Give any two differences between national park and sanctuary.
- (2) Give the list of fauna and flora of Barda wildlife sanctuary.

(C) Give the answer of following question (write any one out of two). (03)

- (1) Give the location and describe fauna & flora of Khijadiya bird sanctuary.
- (2) Give the location and describe fauna & flora of Gir National Park.

(D) Give the answer of following question (write any one out of two). (05)

- (1) Describe: Marine National Park
- (2) Describe: Nalsarovar bird sanctuary
