

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

Time: 1:30 Hours**Marks: 42****Instructions:**

1. Figures to the right indicate marks.
 2. There are five questions in the question paper.
 3. Answer any three of the following questions.
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Que. 1 (A) Give the answer of following question. (04)

- (1) Plasmodium belongs to which phylum?
- (2) Which is the largest phylum of the world?
- (3) All pseudocoelom animal belongs to phylum _____ .
- (4) _____ cells work as excretory organ in phylum platyhelminthes.

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

- (1) Write any two characters of phylum Arthropoda.
- (2) Write any two characters of phylum Echinodermata.

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

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

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

- (1) Classify phylum porifera up to class with suitable examples.
- (2) Classify phylum protozoa up to class with suitable examples.

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

- (1) The clitellar region of *Pheretima posthuma* (Earthworm) is situated in _____ segments.
- (2) Pupa of mosquito is known as _____ .
- (3) Who is the primary host of *Taenia solium* ?
- (4) Cysticercus larva of *Taenia solium* occurs in Human or Pig?

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

- (1) List the stages found in life history of mosquito.
- (2) How many types of nephridia found in earthworm? Give name.

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

- (1) Draw labeled diagram of digestive system of Earthworm.
- (2) Describe: Larvae of Culex.

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

- (1) Describe: Lifecycle of Anopheles mosquito.
- (2) Describe: Cysticercus larva of *Taenia solium* (Tapeworm).

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

- (1) Innermost layer of Intestine is _____ .
- (2) Which hormone is secreted by Alpha cells of pancreas?
- (3) Who gave the name Mitochondria?
- (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 nucleus.
- (2) Write any two functions of liver.

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

- (1) Describe hormones of Pancreas.
- (2) Describe functions of plasma membrane.

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

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

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

- (1) Define: Ecology.
- (2) Who gave the term “Ecosystem”?
- (3) Which types of scales are found in Dipnoi?
- (4) Give the name of non-mechanized boat.

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

- (1) Give list of biotic and abiotic factors of ecosystem.
- (2) Give any two differences between Chondrichthyes and Osteichthyes.

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

- (1) Describe volant adaptation.
- (2) Describe Gill net.

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

- (1) Explain in brief: Pond ecosystem.
- (2) Explain morphological structure of fish.

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

- (1) Flamingo city is situated in _____ .
- (2) What is the scientific name of Asiatic lion?
- (3) Give names of any two national parks of Gujarat.
- (4) Give location and area of Barda 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 Kutch dessert 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 Nal Sarovar bird sanctuary.
- (2) Give an account of importance of wildlife.

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

- (1) Describe: Gir National Park
- (2) Describe: Khijadia bird sanctuary
