

B.Sc. Semester - 1 (CBCS) Examination
Feb/Mar. -2021 (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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- Q.1(A) Give the answer of the following questions. (04)
1. Venus Flower Basket is member of _____ phylum.
 2. Which class of phylum coelenterate exhibit only polyp forms?
 3. In which class Scorpion is classified?
 4. Give any two character of phylum Echinodermata.
- Q.1(B) Write any one out of two. (02)
1. Classify Sea Anemon upto class with reasons.
 2. Classify Brittle Star upto class with reason.
- Q.1(C) Write any one out of two. (03)
1. Discuss general characters of phylum Protozoa, name all the classes and give an example for each class.
 2. Discuss general characters of phylum Annelida, name all the classes and give an example for each class.
- Q.1(D) Write any one out of two. (05)
1. Classify phylum Porifera with all classes with suitable examples.
 2. Characteristics of phylum Mollusca with class giving suitable example of each class.
- Q.2(A) Give the answer of the following questions. (04)
1. Pupa of mosquito is known as _____.
 2. Which type of mouth parts are found in mosquito?
 3. Write scientific name of earth worm.
 4. In which segments clitellum is present in earth worm?
- Q.2(B) Write any one out of two. (02)
1. Septal Nephridia – Location, structure and function.
 2. Draw only labeled diagram of nervous system of earth worm.
- Q.2(C) Write any one out of two. (03)
1. Mouth parts of Culex mosquito.
 2. Scolex of *Taeniasolium*.
- Q.2(D) Write any one out of two. (05)
1. Describe Digestive system of earth worm.
 2. Life cycle of Culex mosquito.
- Q.3(A) Give the answer of the following questions. (04)
1. Who discovered the mitochondria and who gave the name mitochondria?
 2. Kupffer cells are found in _____ organ.
 3. Give the function of Alpha cells in pancreas.
 4. What is phagocytosis?
- Q.3(B) Write any one out of two. (02)
1. Draw a labeled diagram of T.S. of stomach.
 2. Function of Mitochondria.

- Q.3(C) Write any one out of two. (03)
1. Histological structure of Liver and functions of it.
 2. Functions of Endoplasmic Reticulum.
- Q.3(D) Write any one out of two. (05)
1. Describe in brief – Nucleus.
 2. Describe structure of intestine with diagram and its function.
- Q.4(A) Give the answer of the following questions. (04)
1. Give example of aquatic adaptation.
 2. Which types of scale are found in bony fishes?
 3. Give only names of abiotic factors of pond ecosystem.
 4. Trawl net is used for which type of fishing?
- Q.4(B) Write any one out of two. (02)
1. Ctenoid Scales.
 2. Volant adaptation.
- Q.4(C) Write any one out of two. (03)
1. Difference between chondrichthyes and ostrichthyes.
 2. Cast net
- Q.4(D) Write any one out of two. (05)
1. Aquatic adoptions.
 2. Marine ecosystem.
- Q.5(A) Give the answer of the following questions. (04)
1. Define Wildlife.
 2. In which district Nal Sarovar Bird sanctuary is located?
 3. Give the only reasons for depletion of wild life?
 4. Give name of any two avifaunal species found in Khijadiya Bird Sanctuary.
- Q.5(B) Write any one out of two. (02)
1. Location and mammalian fauna of Kutch Wildlife Desert Sanctuary.
 2. Difference between National Park and Sanctuary.
- Q.5(C) Write any one out of two. (03)
1. Gir National Park
 2. Khijadiya Bird Sanctuary.
- Q.5(D) Write any one out of two. (05)
1. Marine National Park
 2. Barda Wild life sanctuary
