

B.Sc. Semester - 1 (CBCS) Examination
Feb/Mar. -2021 (NEW 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 following questions. (04)

1. In which phylum closed circulatory system is present?
2. Give names of classes of phylum coelenterate with an example for each class.
3. Which multi cellular animals do not show division of labor?
4. Name the respiratory pigment found in Annelida.

Q.1(B) Write any one out of Two. (03)

1. Classify phylum Porifera up to class with suitable examples.
2. Classify phylum platyhelminthes up to class with suitable examples.

Q.1(C) Write any one out of Two. (07)

1. Classify phylum Arthropoda up to class with suitable examples.
2. Classify phylum Echinodermata up to class with suitable examples.

Q.2(A) Give the answer of following questions.

1. In which segment the female genital pore of earthworm is found? (04)
2. The excretory organs of *Taeniasolium* are_____.
3. Which types of mouth parts are found in Mosquito?
4. Give the names of different nephridia which are found in earth worm.

Q.2(B) Write any one out of Two. (03)

1. Describe: Female reproductive organs of Earthworm.
2. Describe: Mouthparts of Anopheles male.

Q.2(C) Write any one out of Two. (07)

1. Describe: Life cycle of *Culex*.
2. Describe: Digestive system of Earthworm.

Q.3(A) Give the answer of following questions.

1. Write any two functions of Mitochondria. (04)
2. Outer most layer of mammalian stomach is_____.
3. Which hormones are secreted by intestine?
4. Which enzyme breaks down proteins?

Q.3(B) Write any one out of Two. (03)

1. Describe: Hormones of Pancreas.
2. Draw a labeled diagram of T. S. of Stomach.

- Q.3(C) Write any one out of Two. (07)
1. Structure and function of Endoplasmic Reticulum.
 2. Describe: Histological structure and function of liver.
- Q.4(A) Give the answer of following questions. (04)
1. Define: Ecology.
 2. What are the producers found in freshwater ecosystem?
 3. Write any two adaptations of aquatic animals.
 4. Placoid scales are found in which fishes?
- Q.4(B) Write any one out of Two. (03)
1. Describe: Arborial adaptation.
 2. Describe: Cast net
- Q.4(C) Write any one out of Two. (07)
1. Explain: Marine ecosystem.
 2. Explain: Scales in Fishes.
- Q.5(A) Give the answer of following questions. (04)
1. Give any two differences between National Park and sanctuary.
 2. Give the location and area of Barda wildlife sanctuary.
 3. What are the basic parts of a light microscope?
 4. Which instrument is used for the separation of particulate matter from liquid medium?
- Q.5(B) Write any one out of Two. (03)
1. Write short note: Fauna and flora of Khijadiya Bird sanctuary.
 2. Describe: Gir National Park.
- Q.5(C) Write any one out of Two. (07)
1. Describe: Marine National Park.
 2. Describe: pH meter.
