

B.Sc. Semester - 1 (CBCS) Examination
Oct/Nov-2024 (As Per Syllabus Year June-2018)
ZOOLOGY(CORE)

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

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

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- Que.1(A) Give the answer of following question. (04)
- (1) Metridium belongs to which phylum?
 - (2) Give any two characters of phylum Protozoa.
 - (3) Liver fluke belongs to which phylum?
 - (4) Which locomotory organs are found in phylum Protozoa.
- Que.1(B) Give the answer of following question (write any one out of two). (03)
- (1) Write general characters of phylum Annelida.
 - (2) Write general characters of phylum Echinodermata.
- Que.1(C) Give the answer of following question (write any one out of two). (07)
- (1) Give classification of phylum Arthropoda up to class with suitable examples.
 - (2) Give classification of phylum Mollusca up to class with suitable examples.
- Que.2(A) Give the answer of following question. (04)
- (1) Which is the intermediate hosts for *Taenia solium*?
 - (2) What is the function of the clitellum in earthworm?
 - (3) The pupa stage of a mosquito called as _____.
 - (4) What is the role of the gizzard in earthworm's digestive system?
- Que.2(B) Give the answer of following question (write any one out of two). (03)
- (1) Describe: Septal nephridia of earthworm.
 - (2) Sketch and label: Reproductive System of *Taenia solium*.
- Que.2(C) Give the answer of following question (write any one out of two). (07)
- (1) Describe: Life cycle of *Anopheles* mosquito.
 - (2) Explain digestive system of earthworm.
- Que.3(A) Give the answer of following question. (04)
- (1) What is the primary function of mitochondria?
 - (2) Name the two types of ER.
 - (3) What are the functional units of the liver?
 - (4) What hormones are secrete by the islets of Langerhans?
- Que.3(B) Give the answer of following question (write any one out of two). (03)
- (1) Write short note on Pancreas.
 - (2) Sketch and label: Mitochondria.
- Que.3(C) Give the answer of following question (write any one out of two). (07)
- (1) Describe histological structure and function of mammalian liver.
 - (2) Describe: Endoplasmic Reticulum.

- Que.4(A) Give the answer of following question. (04)
- (1) What is ecology?
 - (2) Name a common primary producer of a pond ecosystem.
 - (3) Give the name of non-mechanized boat.
 - (4) Give name of different fishing nets.
- Que.4(B) Give the answer of following question (write any one out of two). (03)
- (1) Write any three differences between Chondrichthyes and Osteichthyes.
 - (2) Describe fossorial adaptation.
- Que.4(C) Give the answer of following question (write any one out of two). (07)
- (1) Describe aquatic adaptations.
 - (2) Explain in brief: Marine Ecosystem.
- Que.5(A) Give the answer of following question. (04)
- (1) Give location and area of Nalsarovar bird sanctuary.
 - (2) Write the use of centrifuge.
 - (3) Which marine mammals are found in marine national park- Gulf of Kutch?
 - (4) Give location and area of Khijadia bird sanctuary.
- Que.5(B) Give the answer of following question (write any one out of two). (03)
- (1) Give any three differences between national park and sanctuary.
 - (2) Describe: Light microscope.
- Que.5(C) Give the answer of following question (write any one out of two). (07)
- (1) Describe: Gir National Park.
 - (2) Describe: pH Meter.
