

B.Sc. Semester - 1 (CBCS) Examination
Jan/Feb.-2022 (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) Answer the following question. (04)

1. Give any two examples of phylum protozoa.
2. Presence of canal system is the characteristic of which phylum?
3. Flame cells are excretory organ found in phylum.....
4. Jointed appendages are the characteristic ofphylum.

Q.1(B) Answer the following questions. (Any one out of two) (03)

1. Give the classification of phylum Porifera up to class with suitable examples.
2. Give the classification of phylum Annelida up to class with suitable examples.

Q.1(C) Answer the following questions. (Any one out of two) (07)

1. Give the classification of phylum Protozoa up to class with suitable examples.
2. Give the classification of phylum Echinodermata up to class with suitable examples.

Q.2(A) Answer the following question. (04)

1. In Earthworm, clitellar region found in segment number.....
2. How many segments are there in Earthworm?
3. Usually the larva of mosquito is known as.....
4. Which type of mouth parts are found in mosquito?

Q.2(B) Answer the following questions. (Any one out of two) (03)

1. Write a short note on: Culex male mouth part
2. Write a short note on: Scolex of *Taenia solium*.

Q.2(C) Answer the following questions. (Any one out of two) (07)

1. Describe Digestive system of Earthworm.
2. Describe lifecycle of Anopheles mosquito.

Q.3(A) Answer the following question. (04)

1. The inner most layer of mammalian stomach is.....
2. The outer most layer of mammalian intestine is.....
3. Which hormone is secreted by beta cells of pancreas?
4. In rough endoplasmic reticulum.....is attached in its surface.

- Q.3(B) **Answer the following questions. (Any one out of two)** (03)
1. Describe histological structure and function of mammalian liver.
 2. Describe structure and function of endoplasmic reticulum.
- Q.3(C) **Answer the following questions. (Any one out of two)** (07)
1. Describe histological structure and function of mammalian stomach.
 2. Describe structure and function of plasma membrane.
- Q.4(A) **Answer the following question.** (04)
1. Producers areaccording to nutrition.
 2. Which type of caudal fin found in chondrichthyes?
 3. Give the name of mechanized boat.
 4. Give the name of gliding animals which shows passive flight?
- Q.4(B) **Answer the following questions. (Any one out of two)** (03)
1. Write a short note on placoid scales of fishes.
 2. Write a short note on cast net.
- Q.4(C) **Answer the following questions. (Any one out of two)** (07)
1. Give the difference between chondrichthyes and osteichthyes.
 2. Describe aquatic adaptation in detail.
- Q.5(A) **Answer the following question.** (04)
1. Give the location of Nal Sarovar Bird Sanctuary.
 2.city is known as Flamingo city.
 3. List out any two national park of Gujarat.
 4. List out any two sanctuaries of Gujarat.
- Q.5(B) **Answer the following questions. (Any one out of two)** (03)
1. Write a short note on Gir National Park.
 2. Write a short note on Khijadia Bird Sanctuary.
- Q.5(C) **Answer the following questions. (Any one out of two)** (07)
1. Describe marine national park.
 2. Describe principle, procedure and application of centrifuge.
