

B.Sc. Semester - 1 (CBCS) Examination
Oct/Nov. -2019 (NEW COURSE)
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 questions. (Each Question carries 1 Marks) (04)

- (1) Which locomotory organs are found in phylum protozoa?
- (2) Give any two examples of phylum Porifera.
- (3) Dentalium belongs to which phylum?
- (4) Which phylum includes exclusively marine animals?

Que. 1 (B) Write any one out of Two. (Each Question carries 3 Marks) (03)

- (1) Classify phylum Annelida up to class with suitable examples.
- (2) Classify phylum Cnidaria up to class with suitable examples.

Que. 1 (C) Write any one out of Two. (Each Question carries 7 Marks) (07)

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

Que. 2 (A) Give the answer of following questions. (Each Question carries 1 Marks) (04)

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

Que. 2 (B) Write any one out of Two. (Each Question carries 3 Marks) (03)

- (1) Describe: Male reproductive organs of Earthworm.
- (2) Describe: Mouthparts of *Culex* male.

Que. 2 (C) Write any one out of Two. (Each Question carries 7 Marks) (07)

- (1) Describe: Life cycle of *Anopheles*.
- (2) Describe: Digestive system of Earthworm.

Que. 3 (A) Give the answer of following questions. (Each Question carries 1 Marks) (04)

- (1) Write any two functions of Endoplasmic reticulum.
- (2) Outer most layer of mammalian stomach is _____.
- (3) Which hormones are secreted by intestine?
- (4) Which hormone converts peptones and proteoses into amino acids?

Que. 3 (B) Write any one out of Two. (Each Question carries 3 Marks) (03)

- (1) Describe: Hormones of Pancreas.
- (2) Draw a labelled diagram of T.S. of Intestine.

Que. 3 (C) Write any one out of Two. (Each Question carries 7 Marks) (07)

- (1) Structure and function of Nucleus.
- (2) Describe: Histological structure and function of mammalian liver.

- Que. 4 (A) Give the answer of following questions. (Each Question carries 1 Marks) (04)**
- (1) Define: Ecology
 - (2) Which producers are found in freshwater ecosystem?
 - (3) Write any two adaptations of desert animals.
 - (4) Which scales are the characteristics of Chondrichthyes?
- Que. 4 (B) Write any one out of Two. (Each Question carries 3 Marks) (03)**
- (1) Describe: Fossorial adaptation.
 - (2) Describe: Gill net
- Que. 4 (C) Write any one out of Two. (Each Question carries 7 Marks) (07)**
- (1) Explain: Pond water ecosystem.
 - (2) Explain: Scales in Fishes.
- Que. 5 (A) Give the answer of following questions. (Each Question carries 1 Marks) (04)**
- (1) Give any two difference between National Park and sanctuary.
 - (2) Give the location and area of Nalsarovar sanctuary.
 - (3) Which chemical is used in Thermometer?
 - (4) Which instrument is used for the separation of particulate matter from liquid medium?
- Que. 5 (B) Write any one out of Two. (Each Question carries 3 Marks) (03)**
- (1) Write short note: Fauna and flora of Kutch desert wildlife sanctuary.
 - (2) Describe: Marine National Park.
- Que. 5 (C) Write any one out of Two. (Each Question carries 7 Marks) (07)**
- (1) Describe: Gir National Park.
 - (2) Describe: Light Microscope.
