

**B.Sc. Semester - 1 (CBCS) Examination**  
**Nov./Dec. -2018 (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) ANSWER THE FOLLOWING QUESTIONS (ANY ONE OUT OF TWO) [07]**

- (1) Classify Phylum Protozoa and Annelida up to Class with suitable examples.
- (2) Classify Phylum Echinodermata and Coelenterata up to Class with suitable examples.

**QUE-1 (B) ANSWER THE FOLLOWING QUESTIONS (ANY ONE OUT OF TWO) [04]**

- (1) Classify Phylum Mollusca upto Class with suitable examples.
- (2) Classify Phylum Porifera up to Class with suitable examples.

**QUE-1 (C) ANSWER THE FOLLOWING QUESTIONS (ANY THREE OUT OF FIVE) [03]**

- (1) The phenomenon of Polymorphism is the characteristic of \_\_\_\_\_ Phylum.
- (2) Which is the largest Phylum of the World?
- (3) Presence of Canal System is the characteristic of Phylum – \_\_\_\_\_.
- (4) Which type of Coelom is found in Platyhelminthes?
- (5) Acaris belongs to Phylum- \_\_\_\_\_.

**QUE-2 (A) ANSWER THE FOLLOWING QUESTIONS (ANY ONE OUT OF TWO) [07]**

- (1) Describe: Digestive system of Earthworm.
- (2) Describe: Life Cycle of Culex Mosquito.

**QUE-2 (B) ANSWER THE FOLLOWING QUESTIONS (ANY ONE OUT OF TWO) [04]**

- (1) Describe: Mouth Parts of Anopheles Male Mosquito.
- (2) Structure of Scolex of Tape Worm.

**QUE-2 (C) ANSWER THE FOLLOWING QUESTIONS (ANY THREE OUT OF FIVE) [03]**

- (1) Give the name of larva of Tape worm which occurs in Pig.
- (2) In which segments, Spermatheca is found in earthworm?
- (3) Plumose type antenna and Club shaped maxillary palp found in Mouth Part of \_\_\_\_\_.
- (4) Give the body Division of Pupal Stage of mosquito.
- (5) Pupa of Mosquito is known as \_\_\_\_\_.

**QUE-3 (A) 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.

**QUE-3 (B) ANSWER THE FOLLOWING QUESTIONS (ANY ONE OUT OF TWO) [04]**

- (1) Describe: Structure & Function of Mitochondria.
- (2) Describe: Structure & Function of Pancrease.

**QUE-3 (C) ANSWER THE FOLLOWING QUESTIONS (ANY THREE OUT OF FIVE) [03]**

- (1) Which cells of Stomach secrete Pepsin and HCL?
- (2) Inner most layer of Intestine is \_\_\_\_\_.
- (3) The space between two nuclear membrane is called \_\_\_\_\_.
- (4) Which Organelle helps in function of Transportation of material in cell?
- (5) Nucleolus is the site of formation of \_\_\_\_\_.

**QUE-4 (A) ANSWER THE FOLLOWING QUESTIONS (ANY ONE OUT OF TWO)** [07]

- (1) Give the differences between Chondrichthyes and Osteichthyes.
- (2) Aquatic Adaptation.

**QUE-4 (B) ANSWER THE FOLLOWING QUESTIONS (ANY ONE OUT OF TWO)** [04]

- (1) Describe: Trawler and Hook & Line.
- (2) Describe: pond Water Ecosystem.

**QUE-4 (C) ANSWER THE FOLLOWING QUESTIONS (ANY THREE OUT OF FIVE)** [03]

- (1) According to nutrition, Consumers are \_\_\_\_\_.
- (2) Which Excretory material is secreted by Desert animals?-
- (3) Which types of scales are found in Dipnoi?
- (4) In Chondrichthyes, Which type of caudal Fin is found?
- (5) Give the name of Gliding animals which shows Passive Flight.

**QUE-5 (A) ANSWER THE FOLLOWING QUESTIONS (ANY ONE OUT OF TWO)** [07]

- (1) Gir National Park.
- (2) Kutch Desert Wildlife Sanctuary.

**QUE-5 (B) ANSWER THE FOLLOWING QUESTIONS (ANY ONE OUT OF TWO)** [04]

- (1) Principle and working mechanism of Centrifuge.
- (2) Differences between National Park and Sanctuary.

**QUE-5 (C) ANSWER THE FOLLOWING QUESTIONS (ANY THREE OUT OF FIVE)** [03]

- (1) Give the location of Marine National Park.
- (2) Flamingo City is located in \_\_\_\_\_ Sanctuary.
- (3) Make a list of migratory birds of Khijadiya Bird Sanctuary.
- (4) Give the Scientific name of Asiatic lion.
- (5) Define: Wild life

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