



PBL-003-0011013

Seat No. _____

First Year B. Sc. (Sem. I) (CBCS) Examination

November / December - 2018

Zoology : Z - 01

(New Course)

Faculty Code : 003

Subject Code : 0011013

Time : $2\frac{1}{2}$ Hours]

[Total Marks : 70

- Instructions :** (1) Illustrate your answer with neat and labelled diagrams.
(2) Figures to the right side indicate full marks of the question.

- 1 (a) Objective type question. 4
(1) Any two character of Phylum Porifera.
(2) Any two example of Class Insecta.
(3) Name the respiratory organ of Echinodermates.
(4) Millipede belongs to which Class ?
- (b) Answer in brief : (any 1 out of 2) 2
(1) Any four characters of Phylum Protozoa.
(2) Any four characters of Class Gastropoda.
- (c) Answer in detail : (any 1 out of 2) 3
(1) Classify Balanoglossus with reasons.
(2) General character of Phylum Platyhelminthes.
- (d) Write a note on : (any 1 out of 2) 5
(1) General character and classification upto class of Phylum Echinodermata.
(2) General character and classification upto class of Phylum Mollusca.

- 2** (a) Objective type question. **4**
- (1) Give the scientific name of Tapeworm.
 - (2) Function of setae in Earthworm.
 - (3) Which type of mouthparts mosquitoes have ?
 - (4) What is immature proglottid in Tapeworm ?
- (b) Answer in brief : (any 1 out of 2) **2**
- (1) Any four external features of Earthworm.
 - (2) Draw labelled diagram of scolex of Tapeworm.
- (c) Answer in detail : (any 1 out of 2) **3**
- (1) Septal nephridia.
 - (2) Life cycle of Anopheles mosquito.
- (d) Write notes on : (any 1 out of 2) **5**
- (1) Describe reproductive system of Earthworm.
 - (2) Describe mature proglottids of Tapeworm.
-
- 3** (a) Objective type question. **4**
- (1) Who gave the name Mitochondria ?
 - (2) Who discovered Nucleus ?
 - (3) Which cell of pancreas secrete glucagon hormone ?
 - (4) Which cells are phagocytic in liver ?
- (b) Answer in brief : (any 1 out of 2) **2**
- (1) Function of Nucleus.
 - (2) Which type of cells are present in mucosa layer of Stomach ?
- (c) Answer in detail : (any 1 out of 2) **3**
- (1) Function of Liver.
 - (2) Describe structure of ER with diagram.
- (d) Write notes on : (any 1 out of 2) **5**
- (1) Describe Mitochondria in detail.
 - (2) Describe histological structure of Pancreas.

- 4 (a) Objective type question. 4
- (1) Define Ecology.
 - (2) Give the example of Arboreal adaptation.
 - (3) In which state Rampani boat is widely used ?
 - (4) Cycloid scales are found in _____ fishes.
- (b) Answer in brief : (any 1 out of 2) 2
- (1) Name the Abiotic factors of ecosystem.
 - (2) Describe placoid scales.
- (c) Answer in detail : (any 1 out of 2) 3
- (1) Describe any two fishing net.
 - (2) Describe Trawler Boat.
- (d) Write notes on : (any 1 out of 2) 5
- (1) Describe Desert adaptation.
 - (2) Describe fresh water ecosystem.
-
- 5 (a) Objective type question. 4
- (1) Define Wild life.
 - (2) Location of the Gir National Park.
 - (3) Area of Barda Wildlife Sanctuary.
 - (4) In which district Nalsarovar Bird Sanctuary is situated ?
- (b) Answer in brief : (any 1 out of 2) 2
- (1) What is the scientific value and importance of wild life ?
 - (2) Fauna of Gir National Park.
- (c) Answer in brief : (any 1 out of 2) 3
- (1) Difference between national park and sanctuary.
 - (2) Describe Khijadia Bird Sanctuary in brief.
- (d) Answer in brief : (any 1 out of 2) 5
- (1) Marine national park.
 - (2) Kutch desert wildlife sanctuary.