



MBD-0031011020

Seat No. _____

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

November / December – 2016

Z - 101 : Zoology

(New Course)

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

[Total Marks : 70

- Instructions :** (1) Draw neat and labelled diagram wherever necessary.
(2) Figures to the right side indicate full marks for the question.

- 1** (a) Answer the following questions. **4**
- (1) Give the name of phylum which is having triploblastic acoelomate animal.
 - (2) Plasmodium belongs to which class.
 - (3) Star fish belongs to which phylum.
 - (4) Give the name of animal found in hemichordate phylum.
- (b) Answer in brief (any 1 out of 2) **2**
- (1) Classify Earthworm.
 - (2) Describe symmetry.
- (c) Answer in detail (any 1 out of 2) **3**
- (1) Give the general features of phylum protozoa.
 - (2) Which animal is connecting link between Annelida and Arthropoda ? Classify it ?
- (d) Write a note on any one (out of 2) **5**
- (1) Describe the characteristics of phylum Arthropoda.
 - (2) Draw a chart of Invertebrate.
- 2** (a) Answer the following questions. **4**
- (1) Give the scientific name of Earthworm.

- (2) What is the function of blood gland ?
- (3) What is the function of Nephridia ?
- (4) Classify tapeworm.
- (b) Answer in brief (Any 1 out of 2) 2
- (1) What is Apolysis ?
- (2) Types of different Nephridia found in Earthworm with function.
- (c) Answer in detail (any 1 out of 2) 3
- (1) Describe immature proglottid of Tapeworm. (with diagram)
- (2) Draw the diagram of T.S through Pharynx of Earth worm ?
- (d) Write a note on any one (out of 2) 5
- (1) Describe the Nervous system of Earthworm with labelled diagram.
- (2) Life cycle of Culex mosquito.
- 3** (a) Answer the following questions. 4
- (1) Give the name of organ which is called power house of cell.
- (2) Kupffer cells are found in which organ.
- (3) Who proposed fluid mosaic model ?
- (4) Cell membrane is made up by which elements ?
- (b) Answer in brief (Any 1 out of 2) 2
- (1) Write function of Smooth Endoplasmic Reticulum.
- (2) Write the functions of mitochondria.
- (c) Answer in detail (any 1 out of 2) 3
- (1) Describe the cells which are found in islets of Langerhans.
- (2) Describe the villi of Stomach with its functions.
- (d) Write a note on any one (out of 2) 5
- (1) Describe histological structure of Liver with labelled diagam.
- (2) Describe fluid mosaic model.
- 4** (a) Answer the following questions. 4
- (1) Give two example of Fossorial adaption.
- (2) Define Ecology.
- (3) Which type of scales are found in bony fish ?

- (4) Endoskeleton of bony fishes are made up by _____
(Fill the Blank.)
- (b) Answer in brief (Any 1 out of 2) **2**
- (1) Explain only types of fishing nets.
 - (2) Describe cycloid scale.
- (c) Answer in detail (any 1 out of 2) **3**
- (1) Explain Aquatic ecosystem.
 - (2) Describe fish morphology.
- (d) Write a note on any one (out of 2) **5**
- (1) Explain Aquatic adaptation in fishes ?
 - (2) Give difference between Chondrichthyes and Osteichthyes fishes.
- 5** (a) Answer the following questions. **4**
- (1) Write any one name of Bird sanctuary which located in Gujarat.
 - (2) Where the Marine national park is located ?
 - (3) Kutch desert wild life Sanctuary is famous for which animal.
 - (4) What is full form of IUCN ?
- (b) Answer in brief (any 1 out of 2) **2**
- (1) Khijadiya Bird Sanctuary.
 - (2) Write only fauna of Barda wild life Sanctuary.
- (c) Answer in detail (any 1 out of 2) **3**
- (1) Describe Gir National Park.
 - (2) Describe Nalsarovar Bird Sanctuary ?
- (d) Write a note on any one (out of 2) **5**
- (1) What is difference between National Park and Sanctuary ?
 - (2) Write note on Wild life in Gujarat.
