

# ZOOLOGY

2015

Time: 15 Minutes

Max. Marks: 08

## SECTION "A" MULTIPLE CHOICE QUESTIONS

1. Choose the correct answer for each from the given options:
- (i) This branch of Biology deals with the study of defense mechanism against disease's:
- Parasitology
  - Immunology
  - Epidemiology
  - Physiology
- (ii) Farming of honey bee is called:
- Apiculture
  - Agriculture
  - Sericulture
  - Hydrepinics
- (iii) The asexual cycle of Plasmodium, completed in man, is called:
- Gamogony
  - Sporogony
  - Sehizogony
  - Conjugation
- (iv) Egg-laying mammals belong to sub-class:
- Theria
  - Prototheria
  - Metatheria
  - Eutheria
- (v) The skeleton of sponges is made up of:
- Ostia
  - Osculum
  - Spicules
  - Spingocoe
- (vi) Blood clotting is initiated by:
- R.B.Cs
  - W.B.Cs
  - Platelets
  - Plasma
- (vii) The remaining volume of air in the lungs is:
- Vital volume
  - Residual volume
  - Tidal volume
  - Active
- (viii) This is included in fishes:
- Starfish
  - Cuttlefish
  - Jellyfish
  - Sea horse
- (ix) Scorpion belongs to phylum:
- Arthropoda
  - Mollusca
  - Porifera
  - Annelida
- (x) Red colour is imparted to the muscles by:
- Myoglobin
  - CO<sub>2</sub>
  - Water
  - Goblet cells
- (xi) T.B. is caused by:
- Allergy
  - Bacterium
  - Nicotine
  - Virus
- (xii) Closed circulatory system was first developed in this group of Invertebrates:
- Annelida
  - Arthropoda
  - Mollusca
  - Echinodermata
- (xiii) Chondrichthyes have an exoskeleton of:
- Placoid scales
  - Cycloid scales
  - Ctenoid scales
  - Neutrophills
- (xiv) Antibodies are produced by:
- 'B' Cells
  - 'T' cells
  - Macrophages
  - Neutrophills
- (xv) These are included in Parazoa:
- Roundworms
  - Sponges
  - Flatworms
  - Epidermal scales
- (xvi) Respiratory pigment is absent in:
- Earthworm
  - Frog
  - Rabbit
  - Cockroach

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Time: 1 Hours 45 Minutes

Marks: 32

## SECTION 'B' (SHORT-ANSWER QUESTIONS)

**NOTE: Answer 10 questions from this section.**

- 2.(i) Write the functions of Lymphatic System.
- (ii) State any four distinguishing features of phylum Echinodermata.
- (iii) Differentiate between Hibernation and Aestivation and give their examples.
- (iv) State the causes & symptoms of Asthma or Emphysema.
- (v) Give the symptoms of Malaria in human being.
- (vi) Draw a table to show the levels of Biological organization. No description is required.
- (vii) Define Molecular Biology and Biotechnology.
- (viii) Write note on Antibiotics.
- (ix) Describe Polymorphism.
- (x) Discuss the Economic importance of Arthropoda.
- (xi) Write four differences between Ratitae and Carinitae and give examples.
- (xii) Describe any four salient characters of phylum Porifera.
- (xiii) Write a note on Thalassaemia.
- (xiv) Differentiate between Active and Passive immunity.
- (xv) Write a note on structural types of Proteins.

## SECTION 'C' DETAILED-ANSWER QUESTIONS

**NOTE: Answer 2 question from this section(12)**

3. Describe the characters of phylum Annelida OR Protozoa. Classify the phylum and give characteristics if any three classes with examples.
4. Explain the structure of Human heart. Draw neat and labeled diagram of the internal structure of Human heart.
- OR List Cardiovascular Disorders. Write the causes, symptoms and precautionary measures of any five disorders mentioned in the list.
5. Describe various disorders of Gastrointestinal tract in human being.