



Seat No. _____

HAJ-003-2015017

B. Sc. (Sem.-V) (CBCS) (WEF-2019)

Examination

May - 2023

Z-501 : Zoology

(Functional Anatomy of Non-Chordate)

(New Course)

Faculty Code : 003

Subject Code : 2015017

Time : $2\frac{1}{2}$ Hours / Total Marks : 70

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

- 1 (a) Give answers to the following questions : 4
- (1) Fungia is also known as _____.
 - (2) Balanoglossus belongs to _____ class.
 - (3) Butterfly belongs to which order ?
 - (4) Sea pen is also known as _____.
- (b) Write any one out of two : 2
- (1) Write a general characters of Platyhelminthes.
 - (2) Classify pediculus.
- (c) Write any one out of two : 3
- (1) Salient fetures and an example of Echinodermata.
 - (2) Give classification of Lumbricus.
- (d) Write notes on : 5
- (1) Classify phylum Protozoa up to class with specific characters.
 - (2) Classify phylum Mollusca up to class with specific characters.

- 2 (a) Give answers to the following questions : 4
 (1) What is the function of Pectine in scorpion ?
 (2) How many pairs of eyes are present in scorpion ?
 (3) Role of suckers in sepia.
 (4) Name the chromophores in sepia.
- (b) Give answers in short : 2
 (1) Ink gland in sepia.
 (2) Book lungs in Scorpion.
- (c) Give answers to the following questions : 3
 (1) Draw and labelled appendages of scorpion.
 (2) Draw and label Nervous system of sepia.
- (d) Write notes on : 5
 (1) Digestive system in sepia.
 (2) Male reproductive system of Scorpion.
- 3 (a) Give answers to the following questions : 4
 (1) *Kala-azar* disease is caused by _____.
 (2) What is the main function of contractile vacuoles in paramecium ?
 (3) What is Triaxon spicules ?
 (4) The Lagoon island is also known as _____
- (b) Give answers in short : 2
 (1) Describe Fringing reef.
 (2) Sponge industry.
- (c) Give answers in detail : 3
 (1) Skeleton of sponge.
 (2) Define hydrozoan, Octocorallian and hexacorallin corals.
- (d) Write notes on : 5
 (1) Modification of polyps and importance of Polymorphism.
 (2) Sexual Reproduction in protozoa.
- 4 (a) Give answers to the following questions : 4
 (1) Give an example of Gradual metamorphosis.
 (2) What is the common name of Ancylostoma ?
 (3) Dragnoflies is an example of _____
 (4) Which diseases is caused by *trichinella spiralis*.

- (b) Give answers in short : 2
 (1) Significance of Metamerism.
 (2) Pathogenic effect of Ascaris.
- (c) Give answers in detail : 3
 (1) Zoological importance of Peripatus.
 (2) An example of complete metamorphosis.
- (d) Write notes on : 5
 (1) Nauplius and Alima Larva.
 (2) Metamerism in Annelida.
- 5 (a) Give answers to the following questions : 4
 (1) Give functions of Polian vesicles in Echinodermata.
 (2) What is torsion ?
 (3) Tiedemann's body is also known as _____.
 (4) How many of arms are present in Branchiolaria larva?
- (b) Give answers to the questions : 2
 (1) Draw and label Auricularia larva.
 (2) Explain Parapodia as primitive foot.
- (c) Give answers in detail : 3
 (1) Explain Leaping gastropoda.
 (2) Detorsion in Mollusca.
- (d) Write notes on : 5
 (1) Affinities of Balanoglossus.
 (2) Water vascular system of Echinodermata.
-