



**DBJ-003-2015017**

Seat No. \_\_\_\_\_

**B. Sc. (Sem. V) (CBCS) Examination**

**June - 2022**

**Zoology : Z-501**

*(Functional Anatomy of Non Chordata) (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 diagram.
- (2) Figures to the right side indicate full marks of the questions.

Write any 5 questions out of 10 (each question carries **14** equal marks)

- 1 (a) Give the answer of the following questions : **4**
  - (1) Give classification of liver fluke.
  - (2) Lepisma belongs to which phylum ?
  - (3) Give any two examples of phylum coelentrata
  - (4) Give systemic position of Balanoglossus.
- (b) Give answer in short : **2**

Classify spongila with reasons.
- (c) Give answer in detail : **3**

Classification of Bonelia up to order with their characters.
- (d) Write a note on : **5**

Classify phylum mollusca upto class with their specific character and examples.
- 2 (a) Give answer to the following questions : **4**
  - (1) Mushroom coral also known as \_\_\_\_\_
  - (2) Give any two examples of oligochaeta.
  - (3) Corallium is commonly called as \_\_\_\_\_
  - (4) Give classification of oxyuris.

- (b) Give answer in short : 2  
General characters of protozoa.
- (c) Give answer in detail : 3  
Salient feature and example of Aschelminthes
- (d) Write a note on : 5  
General and specific characters and examples of Echinodermata.
- 3 (a) Give answer to the following questions : 4  
(1) How many pairs of eyes present in scorpion ?  
(2) Function of tentacles in sepia.  
(3) Give only name of prosomatic appendages in scorpion.  
(4) Sepia is also known as \_\_\_\_\_
- (b) Give answer in short : 2  
Ink gland.....
- (c) Give answer in detail : 3  
Draw and labelled diagram of sepia (only dorsal view)
- (d) Write a note on : 5  
Male reproductive system in scorpion.
- 4 (a) Give answer to the following questions : 4  
(1) Write only name of excretory organs in scorpion.  
(2) Write the name of sensory organs in sepia.  
(3) Give position of pectine in scorpion.  
(4) Name the chromatophores in sepia.
- (b) Give answer in short : 2  
Book lungs in scorpion.
- (c) Give answer in detail : 3  
External characters of scorpion
- (d) Write a note on : 5  
Digestive system of sepia.
- 5 (a) Give answer to the following questions : 4  
(1) The lagoon island is also known as \_\_\_\_\_  
(2) Name the disease caused by Leishmania  
(3) Define Holozoic nutrition.  
(4) Name the basic forms of coelentrates.

- (b) Give answer in short : 2  
Amoeboid movement in protozoa.
- (c) Give answer in detail : 3  
Skeleton of Sponge.
- (d) Write a note on : 5  
Pattern of polymorphism.
- 6** (a) Give answer to the following questions : 4  
(1) What is canal system in porifera ?  
(2) Define coral.  
(3) What is plasmotomy ?  
(4) Give only name of coral reefs.
- (b) Give answer in short : 2  
Sponge industry
- (c) Give answer in detail : 3  
Types of spicules in sponge.
- (d) Write a note on : 5  
Asexual reproduction in protozoa.
- 7** (a) Give answer to the following questions : 4  
(1) Ancylostoma live in intestine of man and feed upon \_\_\_\_\_  
(2) Which type of meta morphosis is seen in Aphids ?  
(3) What is metamorphosis ?  
(4) Give any two name of crustacean larva.
- (b) Give answer in short : 2  
Pathogenic effect of Trichinella spiralis
- (c) Give answer in detail : 3  
Megalopa larva
- (d) Write a note on : 5  
Parasitic adaption in Fasciola hepatica.
- 8** (a) Give answer to the following questions : 4  
(1) Fasciola hepatica live in \_\_\_\_\_  
(2) Name the simplest and common larva of crustacea  
(3) Give an example of gradual metamorphosis.  
(4) Dragon fly is an example of \_\_\_\_\_

- (b) Give answer in short : 2  
Zoological importance of peripatus
- (c) Give answer in detail : 3  
Complete metamorphosis
- (d) Write a note on : 5  
Metamerism in annelids
- 9** (a) Give answer to the following questions : 4  
 (1) Name the larva of class Asteroidea.  
 (2) Acorn worm is also known as \_\_\_\_\_  
 (3) Define Detorsion.  
 (4) Aurecularia larva belongs to \_\_\_\_\_ class.
- (b) Give answer in short : 2  
Explain Hatchet shaped foot.
- (c) Give answer in detail : 3  
Affinities in mollusca
- (d) Write a note on : 5  
Water vascular system in Echinodermata
- 10** (a) Give answer to the following questions : 4  
 (1) Function of water vascular system  
 (2) How many arms present in Branchiolaria larva ?  
 (3) Tidesman's body also known as \_\_\_\_\_  
 (4) Parapodia is a primitive foot explain it.
- (b) Give answer in short : 2  
Effect and significance of torsion
- (c) Give answer in detail : 3  
Leaping gastropods
- (d) Write a note on : 5  
Detorsion in mollusea.
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