



DBJ-003-1015017 Seat No. _____

**Third Year B. Sc. (Sem. V) (CBCS)
(W.E.F. 2016) Examination**

June - 2022

**Z-501 : Zoology
(Old Course)**

Faculty Code : 003

Subject Code : 1015017

Time : 2.30 Hours]

[Total Marks : 70

Instructions:

- (1) Attempt any five questions.
- (2) Draw neat and labelled diagram wherever necessary.
- (3) Figures to the right side indicate full marks for the questions.

- 1 (a) Give answer to the following questions : **4**
 - (1) Pediculus belongs to which phylum ?
 - (2) Classify murex up to order.
 - (3) Give an example of Hemichordata.
 - (4) Aurelia belongs to class _____.
 - (b) Give answer in short: **2**
Give major characteristic of Aschelminthes.
 - (c) Give answer in detail: **3**
Give the classes of Porifera with one example.
 - (d) Write a note on: **5**
Classify Echinodermata and give distinguished characters and examples of each class.
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- 2 (a) Give answer to the following questions : **4**
 - (1) Pennatula is also known as _____.
 - (2) Give classification of Oxyuris.
 - (3) Give a common name of Pinctada vulguris.
 - (4) Liver fluke belongs to class _____.

- (b) Give answer in short: 2
Give characteristic of Coelenterata with an example.
- (c) Give answer in detail: 3
Classify insecta with examples.
- (d) Write a note on: 5
Classify Protozoa and give distinguished characters and examples of each class.
- 3** (a) Give answer to the following questions: 4
(1) How many pair of appendages present in scorpion ?
(2) Sepia is also known as _____.
(3) Give only name of male reproductive organs in scorpion.
(4) The protective device present in Sepia is _____.
- (b) Give answer in short: 2
Ink gland in Sepia.
- (c) Give answer in detail: 3
Draw and labelled nervous system in scorpion.
- (d) Write a note on: 5
Describe digestive system in Sepia.
- 4** (a) Give answer to the following questions: 4
(1) Name the organ which used in respiration in scorpion.
(2) Function of tentacles in Sepia.
(3) Function Pecten.
(4) Sepia belongs to _____ order.
- (b) Give answer in short: 2
Give only name and function of an appendages in scorpion.
- (c) Give answer in detail: 3
Draw and labelled Dorsal view of Sepia.
- (d) Write a note on: 5
Describe digestive system in Scorpion.
- 5** (a) Give answer to the following questions: 4
(1) The Lagoon Island is also known as _____.
(2) Skeleton of solitary coral is known as _____.
(3) True or false: All sponges are exclusively marine.
(4) What is holophytic nutrition ?

- (b) Give answer in short: 2
Explain the monaxon spicules in sponge.
- (c) Give answer in detail: 3
Explain types of corals.
- (d) Write a note on: 5
Give an account of sexual reproduction in protozoa.
- 6** (a) Give answer to the following questions: 4
 (1) Give example of binary fission.
 (2) Skeleton of sponge secreted by which cells ?
 (3) Give only name of coral reefs.
 (4) Name the disease caused by Leishmania.
- (b) Give answer in short: 2
Name the locomotory organelles of protozoa.
- (c) Give answer in detail: 3
Explain sponge industry.
- (d) Write a note on: 5
Explain Polymorphic polymorphism.
- 7** (a) Give answer to the following questions: 4
 (1) Fasciola hepatica is also known as _____.
 (2) Ascariasis is caused by which organism?
 (3) What is metamerism?
 (4) Define complete metamorphosis.
- (b) Give answer in short: 2
Give the significance of metamerism.
- (c) Give answer in detail : 3
Explain incomplete metamorphosis in insects.
- (d) Write a note on : 5
Parasitic adaptation with reference to Fasciola.
- 8** (a) Give answer to the following questions : 4
 (1) Ancylostoma is also known as _____ worm.
 (2) Name the simplest and commonest larva of crustacean.
 (3) What is segmentation ?
 (4) Give an example of gradual metamorphosis.

- (b) Give answer in short: 2
Name the disease and symptoms caused by Hookworm.
- (c) Give answer in detail: 3
Pathogenic effect of Ascaris.
- (d) Write a note on: 5
Describe larva of crustacean (any three)
- 9** (a) Give answer to the following questions: 4
(1) Para podia foot found in which organism?
(2) Define torsion.
(3) What is function of water vascular system of Echinodermata?
(4) Balanoglossus is also known as _____
- (b) Give answer in short: 2
Give an account of foot in class monoplacophora.
- (c) Give answer in detail: 3
Explain the phenomena of Tortion in gastropods.
- (d) Write a note on: 5
Write affinities of Balanoglossus
- 10** (a) Give answer to the following questions: 4
(1) Which type of foot present in Chiton?
(2) Define detorsion.
(3) Give a function of tube feet.
(4) Name the body regions of Balanoglossus.
- (b) Give answer in short: 2
Give the labelled diagram of Tornaria larvae.
- (c) Give answer in detail: 3
Differentiate between Echinoplutes and Ophiopluted larva
- (d) Write a note on: 5
Describe water vascular system in Echinodermata.
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