

Total number of printed pages-3

3 (Sem-1) ZOO M2

2021

(Held in 2022)

ZOOLOGY

(Major)

Paper : 1·2

[Animal Diversity (Non-Chordate)]

Full Marks : 60

Time : Three hours

The figures in the margin indicate full marks for the questions.

1. Answer the following questions : $1 \times 7 = 7$
 - (a) Write the name of respiratory pigment present in prawn.
 - (b) What is green gland ?
 - (c) Name the reproductive zooid of Obelia.
 - (d) Which sponge is commonly known as glass-rope sponge ?
 - (e) What is hexacanth ?

Contd.

(f) What is mesoglea ?

(g) What is larval form of Asterias.

2. Answer the following questions : $2 \times 4 = 8$

(a) Write about the general organization of Peripatus.

(b) What are different types of spicules found in sponge ?

(c) Give the functions of osphradium.

(d) Write briefly on axoneme.

3. Answer **any three** questions : $5 \times 3 = 15$

(a) What is parasitism ? Write about the parasitic adaptation in Tapeworm.

(b) Define the digestive system of Pila and describe their significance.

(c) What is Trochophore larva ? Describe its structural peculiarities.

(d) What is compound eye ? Describe its functions with suitable diagrams.

(e) Write an account on the skeletal system of sponge.

4. (a) What is Canal system ? Discuss various types of canal system found in sponge.
 $3+7=10$

Or

Write a note on the mode of nutrition in Protozoa. 10

(b) Write an account on the water vascular system in Echinodermata. State its significance. $8+2=10$

Or

Describe the life history and parasitic adaptation of *Fasciola hepatica*. 10

(c) Give an account of torsion and detorsion in Gastropoda. $5+5=10$

Or

Write the general characteristics of phylum Annelida. Classify the phylum up to order with examples. 10