

Total number of printed pages-3

3 (Sem-1) ZOO M2

*only 1 Copy
old course
1.2 paper.*

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