

Total No. of printed pages = 4

3 (Sem 1) ZOO M2

2015

ZOOLOGY

(Major)

Paper : 1.2

Full Marks - 60

Time - Three hours

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

[Animal Diversity (Non-cordate)]

1. Answer the following questions :  $1 \times 7 = 7$

- (a) What is cyclosis ?
- (b) Where mesenchyme is located in porifera ?
- (c) Name the reproductive zooid of obelia.
- (d) What is hermaphroditism ?

[Turn over

- (e) How many pairs of eyes present in leech ?
- (f) Write the name of respiratory pigment present in prawn.
- (g) What is the function of pedicellariae in asterias ?

2. Answer the following questions : (any four)

2×4=8

- (a) Write on structure of axoneme.
- (b) Write short note on spongocoel.
- (c) Peripatus forms a connecting link between two phyla. Discuss the statement.
- (d) Give the functions of osphradium.
- (e) Define pre-erythrocytic schizogony of sporozoite in liver of infected animal.

3. Answer any *three* questions : 5×3=15

- (a) Describe the internal structure of obelia.

- (b) Write on the skeleton of sponge and its significance.
- (c) Give the parasitic adaptation of tapeworm.
- (d) Explain the ciliary movement of paramecium.
- (e) Give an account of structure and function of compound eyes.
4. (a) Write on mode of nutrition in protozoa with suitable examples.  $8+2=10$

Or

- (b) What are the different types of zooid ? Describe their function.  $3+7=10$
- (c) Give at least five characters of phylum annelida and classify the class Hirudinea up to order with characters and examples.  $2+8=10$

Or

- (d) Give main characters of phylum mollusca and classify the class Gastropoda up to order with suitable examples.  $2+8=10$

- (e) Describe the life history and parasitic adaptation of fasciola. 8+2=10

Or

- (f) Write on water vascular system in Echinodermata and its significance. 8+2=10