

2017

ZOOLOGY

( Major )

Paper : 1-2

[ **Animal Diversity (Invertebrates)** ]

*Full Marks : 60*

*Time : 3 hours*

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

1. Answer the following questions : 1×7=7
- (a) Name a multinucleate protozoa.
  - (b) Name any one type of spicules found in Porifera.
  - (c) What is the function of statocyst in prawn?
  - (d) What is a hexacanth?
  - (e) What is hermaphroditism?
  - (f) Which larva of Mollusca is an ectoparasite of fishes?
  - (g) Name the larval forms of Asterias.

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

- (a) What is hepatopancreas? How does it help in digestion in prawn?
- (b) Write the significance of polymorphism in Siphonophora.
- (c) Describe the salient features of Miracidium larva.
- (d) Describe the structure and function of compound eye.

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

- (a) Describe the locomotion in protozoa.
- (b) What are endoparasites? Describe the parasitic adaptation of *Ascaris lumbricoides*.
- (c) Write a note on the larval forms of Echinodermata.
- (d) Why is *Peripatus* known as connecting link between Annelida and Arthropoda?
- (e) Define pre-erythrocytic schizogony of sporozoite in liver of infected animal.

4. Answer the following questions :  $10 \times 3 = 30$

- (a) What is nutrition? Describe the mode of nutrition in protozoa with suitable examples.  $2 + 8 = 10$

( 3 )

Or

- (b) What is canal system? Describe the canal system found in sponge with diagram.  $3+7=10$
- (c) Give details of the life cycle, pathogenecity and prophylaxes measure of *Ancylostoma duodenale*.  $6+2+2=10$

Or

- (d) Describe the life-history and parasitic adaptation of *Fasciola hepatica*.  $8+2=10$
- (e) Describe the salient characters of phylum Mollusca and classify the class Gastropoda up to order with suitable examples.  $4+6=10$

Or

- (f) Write a note on water vascular system in Echinodermata with its significance.  $8+2=10$

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