

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)

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, pathogenicity 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. $8 + 2 = 10$
