

2012

ZOOLOGY

(Major)

Paper : 1.2

[**Animal Diversity (Non-chordate)**]

Full Marks : 60

Time : 2½ hours

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

1. Answer the following questions : 1×7=7

- (a) Name a luminescent Protozoa.
- (b) Write the term for exoskeleton of individual zooid of Cnidaria.
- (c) What is the larval form for all Ctenophores except the Beroids?
- (d) To which order Aphrodite belongs?
- (e) Name the excretory organ present in the insects.
- (f) Write the function of osphradium.
- (g) Give an example of freshwater species of echinoderms.

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

- (a) Write a note on flame cells with diagram.
- (b) Assign Echiurus to its systematic position giving distinguishing features.
- (c) Draw a neat labelled diagram of digestive system of Pila.
- (d) Write what you know about statocyst.

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

- (a) How are different coral reefs formed?
- (b) Write briefly the life cycle of *Ancylostoma* with its pathogenicity in man.
- (c) Describe the different forms of nephridia in annelids.
- (d) Give an account of cephalic appendages of prawn with neat diagram.
- (e) Describe the nervous system of Pila.

4. Answer the following questions :

- (a) Give a brief account of various modes of reproduction in Protozoa with neat diagram. $8 + 2 = 10$

Or

- (b) Classify phylum Porifera up to orders mentioning the distinguishing characters with examples. 10
- (c) Discuss the parasitic adaptations in helminthes. 10

Or

- (d) Distinguish between pseudocoelom and coelom. Describe the coelom in various annelids with suitable diagram. 2+8=10
- (e) Describe the digestive system of prawn with neat labelled diagram. 10

Or

- (f) Write what you know about the larval forms of echinoderms with diagram.
