

## BIODIVERSITY AND ECOLOGY - II

Time : Three Hours]

[Maximum Marks : 50

Note : Attempt two questions each from Section A and B carrying 7½ marks each, and the entire Section C consisting of 10 short answer type question carrying 2 marks each.

### Section - A

1. Give an account of Pallial complex of *Pila*. 7½
2. Write ecological notes and classify the following organisms upto order :  
(a) *Centripede* (2½×3=7½)  
(b) *Octopus*.
3. Describe Ambulacral system in *Asterias*.
4. (a) Write external characters of *Balanoglossus*. (5, 2½)  
(b) Write a note on Gizzard of Cockroach.

### Section - B

5. Discuss the effect of light as ecological factor on animals. 7½
6. Discuss adaptations of animals to dry climate. 7½
7. (a) Write the importance of Biodiversity. (5, 2½)  
(b) Write a note on Predation. 7½
8. Give the causes, impact and control measures of Noise pollution.

### Section - C

9. Attempt all the following :
  - (a) Write the function of Antennary gland of Prawn.
  - (b) What is Haemolymph?
  - (c) Give the location of eyes and anus in Starfish.
  - (d) Write a short note on Urticular gland of Cockroach.
  - (e) Write a short note on Food-web.
  - (f) Define Renewable and Non-renewable natural resources.
  - (g) Write a short note on Radula of *Pila*.
  - (h) Write a note on Commensalism.
  - (i) What are Biogeochemical cycles?
  - (j) Define Ecosystem. (10×2=20)