

BIODIVERSITY AND ECOLOGY - II

Semester-II

Time : Three Hours]

Note : Attempt two questions each from Section A and B carrying IV2 marks each, and the entire Section C consisting of 10 short answer type questions carrying 2 marks each.

[Maximum Marks : 50

SECTION-A

- I. Give an account of Female reproductive system of Cockroach. 7½
II. Describe Nervous system of Pila. 7½
III. Write ecological notes and classify the following organisms upto order :
(a) Peripatus. (b) Loligo. (2½×3=7½)
(c) Echinus.
IV. Discuss the affinities of Balanoglossus.

SECTION - B

- V. Write down the various subdivisions and scope of Ecology. 7½
VI. Give an account of aquatic adaptation in animals. 7½
VII. Explain the various characteristics of Population. 5
VIII. (a) Write down the causes and effects of Air pollution. 2½
(b) Write a short note on Parasitism.

SECTION-C

- IX. Attempt all the following :
(a) Write the economic importance of Prawn.
(b) Write a note on Tube feet.
(c) Differentiate between Oligopyrene and Eupyrene sperms.
(d) What type of gills Prawn has ?
(e) Give the functions of Pedicellariae.
(f) What are Biogeochemical cycles ?
(g) Write a short note on Food Web.
(h) Write a note on Mutualism.
(i) What is the importance of Biodiversity ?
(j) What do you mean by Social organisation in insects ? (10×2=20)