

ZOOLOGY Paper-II

[Biodiversity & Ecology–II (ZOO-202)]

Time : 3 Hours

Max. Marks : 36

Note : Attempt *five* questions in all. Question No. 1 is compulsory and for the rest, select *one* question from each Unit.

1. Write briefly on the following :

- (a) Competitive excusion principle
- (b) Ammensalism
- (c) Climax communities
- (d) Biomagnification
- (e) Global warming
- (f) Ospharidium
- (g) Pedicellariae
- (h) Proboscis of *Balanoglossus*

8×1=8

Unit–I

2. With the help of a labelled diagram, give an account of nervous system of *Pila*. 7

3. (a) Classify upto order and write an ecological note of the the following:

- (i) *Nautilus*
- (ii) *Sepia*
- (iii) *Octopus*
- (iv) *Chiton*

(b) Draw a labelled diagram of alimentary canal of *Pila*. 4,3

Unit–II

4. (a) Give an account of external characters of *Balanoglossus*.

(b) Draw a labelled diagram of water vascular system of *Asterias*. 4,3

5. Describe different types of larvae found in echinoderms. 7

Unit–III

6. How does mutualism differ from commensalism? Giving suitable examples, describe mutualism. 7

7. What is ecological niche? Give an account of hypervolume niche. 7

Unit-IV

8. Give the causes, impact and control of water pollution.
9. Write on the following :
 - (a) Renewable natural resources.
 - (b) Control of air pollution