

ZOOLOGY Paper-IV

Biodiversity & Ecology-II (ZOO-201)

Time Allowed : 3 Hours]

[Maximum Marks : 67

- Note: (i) Question No. 1 is compulsory.
(ii) In all, five questions are to be done including the compulsory question.
(iii) Select any one question from each Unit.

1. Briefly explain the following :

- (i) Eutrophication
(ii) Gause's rule
(iii) Ecotone
(iv) Columella
(v) Dermal Branchiae
(vi) Vulnerable species
(vii) Association between Hermit Crab and Sea Anemone.
(viii) Expand ZSI and DDT. $1 \times 8 = 8$

UNIT-I

2. Describe the alimentary canal of PILA. Discuss the process of ingestion and digestion also in this animal. $5 + 1/2 + 1 1/2 = 7$
3. (a) Draw Pallial complex of female PILA. 4
(b) Write an ecological note and economic importance of any three of following :
- (i) LIMAX
(ii) LOLIGO
(iii) ANODONTA
(iv) SOLEN $1 \times 3 = 3$

UNIT-II

4. Describe the water vascular system of ASTERIAS and comment upon its utility. $5 + 2 = 7$
5. (a) Discuss the external characters of BALANOGLOSSUS. 4
(b) Draw well labelled diagrams of Echinopluteus and Bipinnaria larva of Echinoderms. $1 1/2 + 1 1/2 + 3$

UNIT-III

6. What are Negative Interspecific among organisms? Give their kinds. Explain any one of them in detail with examples. $1/2 + 1 + 5 1/2 = 7$
7. (a) Explain Xerarch succession. 4
(b) Write a note on Ecological Niche. 3

UNIT-IV

8. Give an account of causes, impact and control of Air Pollution.

2+2+3=7

9. (a) How can the water resources be conserved?

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(b) Enumerate various causes of extinction of Wild Life.

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