

Roll No.

Total Pages : 3

GSE/M-20

1490

ZOOLOGY

(Life and Diversity from Mollusca to
Hemichordata and Genetics–II)
Paper–II

Time : Three Hours]

[Maximum Marks : 40

Note : Question No. 1 is compulsory having 10 parts. Answer to each part should not exceed 20 words. Attempt *four* more questions from Section A and B, selecting *two* questions from each section.

Compulsory Question

1. (a) Define Epitaenia.
- (b) What is Sinistral shell ?
- (c) Pluteus Larva.
- (d) Give the position of Madreporite.
- (e) Why is Balanoglossus called tongue worm ?
- (f) Erythroblastosis foetalis.
- (g) Karyotype.
- (h) Nucleoside.
- (i) Inversion.
- (j) Genetic Counselling. (1×10=10)

SECTION-A

2. Describe Nervous system of Pila with a well labelled diagram.
7½
3. Write notes on :
- (a) Torsion and Detorsion in Gastropoda.
 - (b) Aristotle's Lantern. (5+2½)
4. Describe the water vascular system of Asterias in details.
7½
5. (a) Describe the affinities of Hemichordata with Chordata.
(b) Write a note on respiratory system of Balanoglossus.
(3½+4)

SECTION-B

6. Describe the following :
- (a) ABO blood groups in man.
 - (b) Albinism. (4½,3)
7. Describe in detail :
- (a) Turner's syndrome.
 - (b) Klinefelter's syndrome. (3½,4)

8. Explain B-DNA model of DNA. How does Z-DNA differ from B-DNA ? 7½

9. Write notes :

(a) DNA finger printing.

(b) Aminiocentesis. (3½,4)
