Roll No.

Total Pages: 2

BAE/A-20

518

ZOOLOGY

[Life and Diversity of Animals (Invertebrates)
(Annelida to Hemichordate) and Genetics]
Paper–II

Time: Three Hours] [Maximum Marks: 50

Note: Attempt *five* questions in all, selecting *two* questions from each section. Question No. 1 is compulsory (short answer type).

Compulsory Question

- 1. Short answer type question (in about 20-30 words)
 - (a) Spermathecae.
 - (b) Laurer's canal.
 - (c) Polyembryony.
 - (d) Aristotle Lantern.
 - (e) Ospharidium.
 - (f) Nephridia.
 - (g) Sex influenced Genes.
 - (h) Recombination.
 - (i) Anueploidy.
 - (j) Down's syndrome.

 $(10 \times 1 = 10)$

SECTION-A

2.	(a)	Define Metamerism. Explain Metamerism in Annelid	s,
			6
	(b)	Explain sense organs in Pila.	4
3.	(a)	Explain Digestive system of Grasshopper.	6
	(b)	Give External Morphology of Balanoglossus.	4
4.		e Affinities of Hemichordata with other groups of tebrates and with chordates.	of 0
5.	(a)	Explain Water vascular system of Asterias.	7
	(b)	Give brief account of Trochophore Larvae.	3
SECTION-B			
6.	(a)	Explain different laws of Mendel supporting you answer with suitable examples.	ır 7
	(b)	What are sex limited genes ? Explain in brief.	3
7.	(a)	Define Linkage. Support your answer with suitable example.	le 5
	(b)	Explain sex determination in homogametic males.	5
8.	(a)	What are complementary Genes ? Explain givin Example.	g 5
	(b)	What is Epistasis Genes ? Explain giving Example.	5
9.	(a)	Explain Gene Mapping.	5
	(b)	Explain Maternal influence of shell coiling in Snail.	5