

SUBJECT: ZOOLOGY (PAPER-I)

TIME ALLOWED: THREE HOURS

MAXIMUM MARKS: 100

NOTE: Attempt Any FIVE Questions in All.

Q No. 1: a) Explain various modes of locomotion in protozoa.
b) Write note on parasitic adaptations in platyhelminthes.
(10 + 10 Marks)

Q No. 2: Discuss in detail various Larvae found in Arthropoda.
(20 Marks)

Q No. 3: a) Explain foot modifications in mollusca.
b) Write a note on water vascular system in echinodermata.
(10 + 10 Marks)

Q No. 4: Write short note on any **FOUR** of the following:- **(4x5=20 Marks)**

- a) Social Insects
- b) Canal System in Porifera
- c) Origin of Coelom
- d) Sketch Labelled Diagram of Life Cycle of Liver Fluke
- e) Polymorphism in Coelenterates

Q No. 5: a) Write a note on dentition in mammals. **(10 Marks)**
b) Describe structure of amphibian pelvic girdle. **(10 Marks)**

Q No. 6: What is a "Living Fossil"? Discuss sphenodon as a living fossil.
(20 Marks)

Q No. 7: a) Write a note on rise and fall of reptiles. **(10 Marks)**
b) What are salient features of pisces? **(10 Marks)**

Q No. 8: Write short notes on any **FOUR** of the following:- **(4x5=20 Marks)**

- a) Swim Bladder
- b) Ruminant Stomach
- c) Endothermy
- d) Mammalian Heart
- e) Shell of Mollusca