# 2019

## ZOOLOGY

( Major )

Paper : 1·2

**[ Animal Diversity (Non-chordates) ]**

*Full Marks* : 60

*Time* : 3 hours

*The figures in the margin indicate full marks for the questions*

**1.** Answer the following questions : 1×7=7

*(a)* Write the infective stage of plasmodium to man.

*(b)* Name the cells which help in maintaining a current of water through Poriferan body.

*(c)* Name two animal phyla with radial symmetry.

*(d)* How is a tapeworm attached to the host's intestine?

*(e)* What do you mean by sanguivorous mode of feeding?

(f) Name a segmented mollusc.

(g) Classify the silverfish up to class.

**2.** Answer the following questions : 2×4=8

(a) Write a short note on the feeding mechanism of amoeba.

(b) How do the terms 'corallum' and 'corallite' differ?

(c) Write the significance of *Peripatus* in evolution.

(d) Draw a neat labelled diagram of Bipinnaria larva.

**3.** Answer any *three* of the following questions : 5×3=15

(a) Describe the mechanism of formation of coral reef. 5

(b) Write about the parasitic adaptation in Helminthes. 5

(c) Give an account of the structure of trochophore larva. Discuss its evolutionary significances. 3+2=5

(d) Describe the thoracic appendages of *Palaemon* with neat labelled diagram. 4+1=5

(e) Write a short note on Radula. 5





**4.** Answer any *three* of the following questions : 10×3=30

(a) Give a brief account of the modes of reproduction in Protozoa. 10

(b) Write about the canal system in Porifera. Mention its significance. 7+3=10

(c) What do you mean by polymorphism? Give an account on polymorphism in Siphonophora. 2+8=10

(d) Describe the life history of *Ascaris*. 10

(e) Write the general characters of phylum Mollusca and classify it up to classes with examples. 5+5=10

(f) Discuss the water vascular system and its importance in Echinodermata. 8+2=10

★ ★ ★