

U.G. 3rd Semester Examination - 2019**ZOOLOGY****[GENERIC ELECTIVE]****Course Code : ZOOL(H)GE-1-T**

Full Marks : 40

Time : 2½ Hours

*The figures in the right-hand margin indicate marks.**Candidates are required to give their answers in their own words as far as practicable.*1. Answer any **five** questions of the following:

2×5=10

- a) What are the principles of nomenclature?
- b) Define parental care.
- c) What are the functions of micronucleus and macronucleus in *Paramecium*?
- d) Why do some birds migrate at night?
- e) What is the molluscan osphradium?
- f) Write 2 key differences between choanocytes and pinacocytes.
- g) What are tube feet in starfish?
- h) What is meant by retrogressive metamorphosis?

[Turn over]

2. Answer any **two** questions of the following:

$5 \times 2 = 10$

- a) Give three basic characteristics of an insect.
What is termitarium? $3+2$
- b) Describe the basic structure of swim-bladder.
What is Physostomous type of swim-bladder?
 $3+2$
- c) What are nephridia? How many types of
nephridia are found in earthworm based on their
location. $2+3$
- d) Name the muscles and functions of each of them
associated with snake biting mechanism. $2+3$

3. Answer any **two** questions of the following:

$10 \times 2 = 20$

- a) What is Fascioliasis? Explain through diagram
the life cycle of *Fasciola hepatica*. Why liver
fluke is called digenetic? $2+(4+2)+2$
- b) State the four major characteristic features of
molluscs? Give three characteristics each of the
following Classes with example?
 - i) Gastropoda
 - ii) Bivalvia
 - iii) Cephalopoda $2+(3 \times 2)+2$

- c) What are the differences between metatheria and eutheria? How are marsupial mammals different from prototherians mammals? List five characters that are shared by all mammals.

4+3+3

- d) Classify amphibia upto living orders, mentioning two characters and an example of each order. Add a note on major Parental Care in *amphibia*.

(3+3)+4