

U.G. 1st Semester Examination - 2021**ZOOLOGY****[HONOURS]****Generic Elective Course (GE)****Course Code : ZOOL-H-GE-T-01**

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: $2 \times 5 = 10$
- What is Sol-gel Theory in amoeboid movement? Who proposed this theory?
 - Briefly describe the role of choanocyte chamber.
 - Define eusociality. Name different castes found in termite.
 - What do you mean by endomixis?
 - Differentiate between male and female *Ascaris*.
 - Write the chemical composition of Poison.

- Write three important Caecilians characters.
 - What are pterylae and pterylosis?
2. Answer any **two** questions: $5 \times 2 = 10$
- Differentiate between water canal system and water vascular system.
 - Briefly describe the structure of a septal nephridium of *Pheretima* sp.
 - Distinguish between physoclistus and physostomous swim bladder.
 - Comment on the respiratory organs found in *Pila* sp.
3. Answer any **two** questions: $10 \times 2 = 20$
- Classify Phylum Cnidaria upto subclass. State their salient feature with example. Why does life cycle of *Obelia* sp can't be considered as Alternation of generation? $3+4+3$
 - Describe the life history, pathogenicity and control measures of *Fasciola hepatica*. $6+2+2$
 - Write the salient features of the class Mammalia. Give an account of scheme of classification of the class Mammalia upto infraclass. Describe the structure and functions of Sudorificand gland. $3+3+2+2$

[Turn over]

d) Write notes on (any **four**): $2\frac{1}{2} \times 4 = 10$

- i) Rhabditiform larva
 - ii) Zugunruhe
 - iii) ICZN
 - iv) Retrogressive metamorphosis
 - v) Fangs
 - vi) Foam Nest
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