## 1/EH-63 (i) (Syllabus-2015)

## 2018

(October)

## ZOOLOGY ( Elective/Honours )

## FIRST PAPER

( Systematics, Animal Diversity and Evolution )

Marks: 56

Time: 3 hours

The figures in the margin indicate full marks for the questions

Answer Question No. 1 and any four from the rest

- 1. Briefly describe any three of the following:
  - (a) Binomial nomenclature
  - (b) Structure of Obelia
  - (c) Respiratory system of Pila
  - (d) Anatomical evidences of evolution
  - (e) Digestive system of rabbit

4×3=12

2. (a) Define taxonomic hierarchy.

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	give two examples each for phylum Arthropoda, Mollusca and classes Amphibia, Reptilia and Mammalia. 2×5=10
3.	Give an account of conjugation in <i>Paramoecium</i> and discuss its significance. 8+3=11
4.	Describe the urinogenital system of leech with the help of a diagram. 8+3=11
5.	Describe the organs and mechanism of respiration in fish <i>Labeo</i> . Draw a labelled diagram to illustrate your answer. 2+6+3=11
6.	(a) Discuss the theory of natural selection.
	(b) Write a note on the embryological evidences of evolution.
7.	What do you understand by the term intermediate host'? Describe the life cycle of <i>Plasmodium vivax</i> with special reference to intermediate host.  2+9=11
8.	Write short notes on any two of the following: $5\frac{1}{2} \times 2 = 11$
	(a) Salient features of Amphioxus
	(b) Tracheal respiration in cockroach
	(c) Six-kingdom classification
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