15.1- Cpy

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

2016

(October)

ZOOLOGY

(Elective/Honours)

(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. Write in brief on any three of the following:
 - 4×3=12
 - (a) Minor phyla
 - (b) Reproduction in Obelia
 - (c) Oparin-Haldane theory
 - (d) External morphology of Petromyzon
 - (e) Feeding and digestion in leech
- **2.** (a) Classify phylum Arthropoda up to classes giving examples.

(b) Give the distinctive features of class Mammalia.

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- 3. Describe the life cycle of *Plasmodium vivax*. Suggest measures to control the spread of malaria. 9+2=11
- 4. With the help of a suitable diagram, describe the digestive system of *Pila*. Add a note on its feeding mechanism. (2+6)+3=11
- Describe the organs and mechanism of respiration in fish Labeo. Draw a diagram to illustrate your answer. (3+6)+2=11
- 6. What is evolution? Discuss the anatomical and embryological evidences of evolution.

1+(5+5)=11

- 7. Describe the male and female reproductive systems of rabbit with the help of suitable diagrams.

 4+4+3=11
- 8. Write short notes on any two of the following: $5\frac{1}{2}\times2=11$
 - (a) Conjugation in Paramecium
 - (b) Tracheal respiration in cockroach
 - (c) Skeletal system of Sycon
