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

2022

(February)

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) Binomial nomenclature
- (b) Life cycle of Entamoeba histolytica
- (c) Malpighian tubules
- (d) Salient features of Balanoglossus
- (e) Four postulates of Lamarckism
- Write down the general characteristics of phylum Chordata. Classify phylum Chordata up to classes with examples. 3+8=11

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22D/123

(Turn Over)

(2)

3. Describe the life cycle of *Ascaris lumbricoides*. Add a note on the mode of infection and pathogenicity of *Ascaris*.

7+2+2=11

- **4.** With the help of suitable diagram, describe the digestive system of cockroach. 3+8=11
- Describe the respiratory system in Labeo. Provide a well labelled diagram of the same. 8+3=11
- 6. Describe the different anatomical and embryological evidences of evolution. $5\frac{1}{2}+5\frac{1}{2}=11$
- 7. (a) Describe the canal system in Sycon with diagrams.5+2=7
 - (b) Briefly describe the morphology of *Petromyzon.* 4
- 8. Write short notes on/Answer any two of the following : 5¹/₂×2=11
 - (a) Pathogenicity of Plasmodium vivax
 - (b) Briefly summarise Oparin-Haldane theory of origin of life.
 - (c) Morphology of leach
 - (d) Urinogenital system in male rabbit

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