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

2. What are the gel102 haracteristics of

chordates? Highlight the diagnostic features of the class Ma (radoto0) 5+6

3. Describe the YDOJOOZ of Entamoeba histolymoa Add a note on its pathogenicity.

(Elective/Honours)

Describe the SPAPER set editored

(Systematics, Animal Diversity and Evolution)

admorab mark Marks: 56 to glad and Mark .3

Time: 3 hours

The figures in the margin indicate full marks for the questions

Answer Question No. 1 which is compulsory and any four from the rest

1. Write in brief on any three of the following:

auszoluonsia H 4×3=12

- (a) Six-kingdom classification
- (b) Canal system of sycon
- (c) Respiratory system in cockroach
- (d) Salient features of amphioxus
- (e) Geological timescale

20D/32 delive) (h 88-M9\1

(Turn Over)

- 2. What are the general characteristics of chordates? Highlight the diagnostic features 5+6=11 of the class Mammalia.
- 3. Describe the life cycle of Entamoeba histolytica. Add a note on its pathogenicity. (Elective/Honours)

4. Describe the structure of water vascular system of Asterias with suitable diagram. [1]=2+ematics, Animal Diversity and Evolution)

- 5. With the help of suitable diagram, describe the digestive system of rabbit. 2+9=11
- 6. Explain Charles Darwin's theory of Evolution and the deductions that lead to the theory of 7+4=11 natural selection.
- aquatic Give an account of the suitable respiration in Pila with 5+2=7 diagram.
- (b) Describe the salient features of 4 Balanoglossus.
- 8. Write short notes on any two of the following:
 - (a) Taxonomic hierarchy
 - (b) Pathogenicity of Ascaris lumbricoides
 - (c) Paleontological evidences of evolution

(e) Geological timescals

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

ZOO-ELH-101 (A) (Syllabus-2015)

2015

Chordats up to

(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. Write, in brief, on any three of the following: $4 \times 3 = 12$
 - (a) Taxonomic hierarchy
 - Pathogenicity of Plasmodium vivax (b)
 - Digestive system of leech (c)
 - External morphology of Balanoglossus
 - Lamarckism

- Write down the salient features of phylum Chordata. Classify phylum Chordata up to classes giving diagnostic features and suitable examples.
 4+7=11
- Give an account of the canal system in sycon with suitable diagram.
- Describe the structure and function of watervascular system of Asterias with suitable diagrams.
- Describe the digestive system of rabbit.
 Provide a well-labelled diagram of the same.
 7+4=11

The full res in the margo andions full marks

- (a) Discuss the theory of natural selection.(b) Write a note on anatomical evidences of evolution.
- 7. Describe the life cycle and pathogenicity of Ascaris. 7+4=11
 - 8. Write short notes on any two of the following: $5\frac{1}{2} \times 2 = 11$
 - (a) Respiratory organs in Labeo
 - (b) Salient features of Amphioxus
 - (c) Six kingdom classification

(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

- Write in brief on any three of the following: 4×3=12
 - (a) Minor phyla
 - (b) Reproduction in Obelia

D7/36

- (c) Oparin-Haldane theory
- (d) External morphology of Petromyzon
- (e) Feeding and digestion in leech
- (a) Classify phylum Arthropoda up to classes giving examples.

1/EH(2) (Syllabra-2015)

- (b) Give the distinctive features of class Mammalia.
- Describe the life cycle of Plasmodium vivax.
 Suggest measures to control the spread of malaria.
- 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
- 5. 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.

1891 545 most rank piny bas I alk mode 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

classes giving ***

D7-3100/36

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

(Turn Over)

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

2017

Englished Site

(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. Write in brief on any three of the following:

 $4 \times 3 = 12$

- (a) Taxonomic hierarchy
- (b) Pathogenicity of Entamoeba histolytica
- (c) Digestive system of Pila
- (d) Respiratory system of Petromyzon
- (e) Lamarckism

2.	(a) Write down the characteristics of kingdom Animalia. Highlight the
	diagnostic features of phylum Porifera.
	4+3=7
	(b) Classify phylum Annelida up to classes. 4
3.	Give an account of the life cycle of Ascaris
1,	lumbricoides and its pathogenicity. 7+4=11
4.	Describe the canal system in Sycon with
	suitable diagrams.
5.	Explain with the help of suitable diagrams
	the water vascular system in Asterias. 11
6.	Describe the circulatory system of rabbit
	with suitable diagrams.
73	with most track that birds is a recently bear there are
7.	
*	and the deductions that lead to the theory of
	natural selection. 7+4=11
8.	Write short notes on any two of the
•	following: $5\frac{1}{2} \times 2 = 11$
* * *	(a) Binomial nomenclature
	(b) Geological timescale
	(c) Conjugation in Paramecium

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: $4\times3=12$
 - (a) Binomial nomenclature
 - (b) Structure of Obelia
 - (c) Respiratory system of Pila
 - (d) Anatomical evidences of evolution
 - (e) Digestive system of rabbit

2. (a) Define taxonomic hierarchy.

1

- Write three main characteristics and (b) give two examples each for phylum Arthropoda, Mollusca and classes Amphibia, Reptilia and Mammalia. 2×5=10
- 3. Give an account of conjugation in Paramoecium and discuss its significance.

8+3=11

- 4. Describe the urinogenital system of leech with the help of a diagram. 8+3=11
- Describe the organs and mechanism of 5. respiration in fish Labeo. 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.

4

- What do you understand by the term 'intermediate host'? Describe the life cycle of Plasmodium vivax with special reference to intermediate host. 2+9=11
- Write short notes on any two of the 8. following: 51/2×2=11
 - (a) Salient features of Amphioxus
 - (b) Tracheal respiration in cockroach
 - Six-kingdom classification (c)

 $\star\star\star$