

Question Paper Code : 5701

M.Sc. (Semester-II) Examination, 2018

(For Regular/Back Paper/Improvement Students)

ZOOLOGY

[First Paper]

(Chordata)

Time : Three Hours]

[Maximum Marks : 70

Note : Answer **five** questions in all. Question **No.1** is **compulsory**. Besides this, **one** question is to be attempted from each unit. Illustrate your answers with suitable diagrams.

1. Write short notes on the following : [3x10=30]
- (a) Endostyle
 - (b) Hatschek's nephridium
 - (c) Holocephali
 - (d) Difference between Ophidia and Lacertilia
 - (e) Limbless amphibians
 - (f) Kiwi

5701/400

(1)

[P.T.O.]

- (g) Scaly ant eater
- (h) Rattle snake
- (i) Reptilian characters of fossil birds
- (j) Flying mammals

UNIT-I

2. Give an account of general organisation of Coelocanthiformes. [10]
3. Write notes on **any two** of the following : [5x2=10]
 - (a) Affinities of ostracoderms
 - (b) Lung fishes
 - (c) Outline classification of Chordata upto class

UNIT-II

4. Give an account of adaptive radiation of Reptilia. [10]
5. Write notes on **any two** of the following : [5x2=10]
 - (a) Extinct amphibians
 - (b) Affinities of Apoda
 - (c) Neoteny in Urodela

5701/400 (2)

UNIT-III

6. Give an account of the flight adaptations in birds. [10]
7. Write short notes on **any two** of the following : [5x2=10]
 - (a) Stem reptiles
 - (b) Aquatic birds
 - (c) Sphenodon

UNIT-IV

8. Give an account of the structural peculiarities and phylogenetic relations of Prototheria and Metatheria. [10]
9. Write short notes on **any two** of the following : [5x2=10]
 - (a) Uterus modifications
 - (b) Edentata
 - (c) Ruminant stomach

----- X -----

5701/400 (3)