

**SIR.CR.REDDY AUTONOMOUS COLLEGE, ELURU**  
(Affiliated to Adikavi Nannaya University)  
**I B.Sc. (II SEMESTER) syllabus (CBCS) pattern 2016-2017**  
**Subject: ZOOLOGY**  
**Paper II: Biology of chordates**

**Time: 3hrs**

**Max.marks:75**

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**PART-A**

**(General characters of chordata, pro chordata, Cyclostomata, Pisces and Amphibia)**

**UNIT-I**

1.1 General characters of chordate

**1.2 Prochordata**

- 1.2.1 Salient features of cephalochordata
- 1.2.2 Structure of branchiostomata
- 1.2.3 Affinities of cephalochordata
- 1.2.4 Salient features of urochordata
- 1.2.5 Structure and life history of herdmania
- 1.2.6 Significance of retrogressive metamorphosis

**UNIT-II**

**2.1 CYCLOSTOMATA**

- 2.1.1 General characters of cyclostomata
- 2.1.2 Comparison of the petromyzon and myxine

**2.2 PISCES**

- 2.2.1 General characters of fishes
- 2.2.2 Classification of fishes up to sub-class level with examples
- 2.2.3 scoliodon-external features, digestive system, respiratory system, heart, brain.
- 2.2.4 Migration in fishes
- 2.2.5 Types of scales
- 2.2.6 Dipnoi

**UNIT-III**

**3.1 AMPHIBIA**

- 3.1.1 General characters of amphibian
- 3.1.2 Classification of amphibian up to orders with examples
- 3.1.3 Rana hexadactyla-external features, digestive system, respiratory system, heart, brain. Additional input
- 3.1.4 Parental care in amphibians

**PART-B**  
**(Reptilia, aves&Mammalia)**

**UNIT-IV**

**3.2 REPTILIA**

- 3.2.1 General characters of reptilian
- 3.2.2 Classification of reptilian up to orders with examples
- 3.3.3 Calotes – external features, digestive system, respiratory system, heart, brain.
- 3.3.4 Identification of poisonous snakes and skull inn reptiles.

**UNIT-V**

**4.1 Aves**

- 4.1.1 General characters of aves
- 4.1.2 Classification of aves up to sub-classes with examples
- 4.1.3 Columba livia-external features, digestive system, respiratory system,heart,brain.
- 4.1.4 Migration in birds
- 4.1.5 Flight adaptations in birds

**UNIT-VI**

**5.1 Mammalia**

- 5.1.1 General characters of mammalia
- 5.1.2 Classification of Mammalia unto sub-classes with examples
- 5.2 Comparison of prototherians, metatherians and eutherians
- 5.3 Dentition in mammals

Additional input:

Rabbit-digestive system, respiratory system, heart.