

**STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI 600 086**  
(For candidates admitted from the academic year 2015 – 2016 & thereafter)

**SUBJECT CODE: 15ZL/MC/CH24**

**B. Sc. DEGREE EXAMINATION APRIL 2018**  
**BRANCH VI.A. – ADVANCED ZOOLOGY AND BIOTECHNOLOGY**  
**SECOND SEMESTER**

**COURSE : MAJOR – CORE**  
**PAPER : CHORDATA**  
**TIME : 3 HOURS** **MAX. MARKS: 100**

**SECTION – A**

**ANSWER ALL QUESTIONS: (10 X 3 = 30)**

1. Comment on endostyle.
2. Write any three characteristic features of Urochordates.
3. Draw and label a placoid scale.
4. Explain the structure of air bladder and its significance in fishes.
5. Write the taxonomy of *Calotes versicolor*.
6. Name any three poisonous snakes of India.
7. What is Ratitae?
8. Draw and label a Quill feather.
9. Differentiate homodont and heterodont dentition.
10. Mention the functions of the following:  
a. Ampulla of Lorenzini    b. Pecten    c. Caecum

**SECTION – B**

**ANSWER ANY FIVE QUESTIONS: (5 X 6 = 30)**

11. Write any six characteristic features of Cyclostomes.
12. Explain electric organs in fishes.
13. With the help of a neat labeled diagram explain the poison apparatus of snakes and its biting mechanism.
14. Describe any six flight adaptations in birds.
15. Explain the structure of brain in *Oryctolagus cuniculus*.
16. Enumerate the affinities of *Petromyzon*.
17. Comment on Neoteny in Urodela.

**SECTION – C**

**ANSWER ANY TWO QUESTIONS: (2 X 20 = 40)**

18. Write an account on Parental care in Fishes.
19. Discuss the affinities of *Amphioxus*.
20. Describe in detail the various types of migration in birds.
21. Write a detailed account on Aquatic mammals and their adaptations.

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