

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 2017
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. FILL IN THE BLANKS:

- a) Larval form of Petromyzon is _____.
- b) Skin of shark contains _____ scales.
- c) Anura includes _____ amphibians.
- d) Micrusus is commonly called _____.
- e) Sound producing organ in birds is _____.
- f) In rabbit, the habit of eating its own faeces is called _____.

2. MENTION THE ZOOLOGICAL NAME OF THE FOLLOWING:

- a) Sea horse b) Pearl spot c) South Indian toad d) Common krait e) Pigeon f) Rabbit

3. GIVE THE COMMON NAME OF THE FOLLOWING:

- a) *Branchiostoma* b) *Petromyzon* c) *Scolidon* d) *Alytes* e) *Naja Naja* f) *Struthio*

4. COMMENT ON THE FOLLOWING:

- a) Solenocytes b) Glottis c) Metanephric kidney

5. GIVE THE FUNCTIONS OF THE FOLLOWING:

- a) Hatschek's nephridium b) Ampulla of Lorenzini c) Nuptial pad

6. MATCH THE FOLLOWING:

- | | |
|--------------|------------------------|
| a) Humerus | Aquatic mammal |
| b) Femur | Flightless birds |
| c) Cranium | Fusion of 14 vertebrae |
| d) Synsacrum | Fore limb |
| e) Kiwi | Hind limb |
| f) Orcinus | Skull |

7. DISTINGUISH BETWEEN:

- a) Systole and Diastole
- b) Hepatic portal system and renal portal system
- c) Hemotoxin and neurotoxin

8. WHAT ARE THE FOLLOWING?

- a) Mermaid's purse b) Neoteny c) Pericardium

9. Draw a neat labelled diagram of brain of rabbit.

10. Comment on Bird ringing.

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

11. Briefly explain the feeding mechanism in *Amphioxus*.
12. Write a brief note on affinities of *Petromyzon*.
13. Write down the salient features of Pisces.
14. Write short notes on electric organs in fishes.
15. Explain the male and female Urinogenital systems in *Calotes*.
16. Write a brief account on respiratory system in Pigeon.
17. Briefly explain the types of dentition.

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

18. Write an essay on parental care in fishes.
19. Give an account on poison apparatus and biting mechanism in snakes.
20. How are birds adapted for the aerial mode of life?
21. Give a detailed account on aquatic mammals.
