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

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

## **B. Sc. DEGREE EXAMINATION APRIL 2016** BRANCH VI.A. - ADVANCED ZOOLOGY AND BIOTECHNOLOGY SECOND SEMESTER

	COURSE : PAPER : TIME :	MAJOR – CORE CHORDATA 3 HOURS	MAX. MARKS: 100
		$\underline{\mathbf{SECTION}} - \underline{\mathbf{A}}$	
	<b>ANSWER ALL QUESTIONS</b> :		$(10 \times 3 = 30)$
1.	a) In Petromyzon, buccal funnel acts like a b) The main function of the air bladder is c)pairs of cranial nerves are present in <i>Calotes</i> . d) In pigeon are modified in to wings. e) Irregular pinkish gland located between the limbs of duodenum in rabbit is f) Gap between incisors and premolars is called as		
2. MENTION THE ZOOLOGICAL NAME OF THE FOLLOWING:			
	<ul><li>a) Climbing perch</li><li>d) Kiwi</li></ul>	<ul><li>b) Chinese Giant Salamander</li><li>e) Duck billed Platypus</li></ul>	c) Cobra f) Blue whale
3.	GIVE THE COMMO a )Petromyzon d) Columba livia	N NAME OF THE FOLLOWING: b) Scoliodon e) Oryctolagus cuniculus	c) Calotes versicolar
4.	a) Solenocytes and melanocytes b) Median fins and lateral fins c) Larynx and Syrinx		
5.	a) Coprophagy	<b>MS:</b> b) Koliker's pit	c) Neoteny
6.	a) Migration from river to sea water b) Study of reptiles c) Changing the body temperature according to the environmental temperature		

#### 7. **DEFINE THE FOLLOWING:**

a) Retrogressive metamorphosis

b) Paedogenesis

c) Migration

8. Give an example for:

a) Anapsida

b) Parapsida

c) Diapsida

9. **Illustrate** a Quill feather

10. Relate structure and function:

a) Electric organ

b) Clasper

c) Sucker

## SECTION – B

### **ANSWER ANY FIVE QUESTIONS:**

 $(5 \times 6 = 30)$ 

- 11. Explain the structure of heart in Pigeon.
- 12. Describe the urino genital system of male Shark.
- 13. Enumerate the characteristic features of Amphibians.
- 14. Describe the synsacrum.
- 15. Explain the types of dentition in Mammals.
- 16. Give an account of any two aquatic Mammals.
- 17. Discuss the affinities of Petromyzon.

#### SECTION - C

## **ANSWER ANY TWO QUESTIONS:**

 $(2 \times 20 = 40)$ 

- 18. Describe the external morphology and body wall of *Amphioxus*.
- 19. Discuss the parental care in fishes.
- 20. Describe any 4 poisonous snakes of South India and add a note on the poison apparatus and biting mechanism of poisonous snakes.
- 21. Explain the flight adaptations in birds.

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