STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI 600 086

(For candidates admitted from the academic year 2010 - 2011)

SUBJECT CODE: ZL/MC/CR24

B. Sc. DEGREE EXAMINATION APRIL 2011

BRANCH VI.A. – ADVANCED ZOOLOGY AND BIOTECHNOLOGY SECOND SEMESTER

COURSE : MAJOR - CORE
PAPER : CHORDATA
TIME : 3 HOURS

TIME : 3 HOURS MAX. MARKS: 100

SECTION - A

<u>A</u> !	ANSWER ALL QUESTIONS:							$(10 \times 3 = 30)$		
1.	FILL IN THE BLANKS									
	a.	. Tornaria Larva is seen in the development of								
	b.	Scroll valve is present in								
	c.	The last cranial nerve in frog is known						nerve.		
	d.	Reptiles are blooded, terrestrial or aquatic animals.								
	e. In pigeon, the adult female has only theOvary and le their main reproductive organs.								ry and left oviduct as	
	f.	The brain of R	Rabbit h	as a spe	ecial trar	nsverse	band of	nervou	s tissue	
		interconnectin	g the tw	o hemi	ispheres	known	as		·	
2.	MENTION THE ZOOLOGICAL NAME OF THE FOLLOWING:								OWING:	
	a)	Eel b)	Flying	fish		c)	Tree fr	rog	d) Green turtle	
	e)	Garden lizard		f)	Platypi	us.				
3.	GIVE THE COMMON NAME OF THE FOLLOWING:									
	a)	Petromyzon	b)	Hippo	campus		c)	Icthyop	ohis	
	d)	Hemidactylus	e)	Struth	io		f)	Macro	pus	
4.	NAME THE ORDER TO WHICH THE FOLLOWING BELONG:								ELONG:	
	a)	Frog	b)	Shark				c)	Snakes	
	d)	Pigeon	e)	Bats				f)	Whales	
5.	Gl	GIVE THE FUNCTIONS OF THE FOLLOWING:								
	a)	Syrinx	b)	Pace -	maker		c)	Crop		

6. MATCH THE FOLLOWING

a) Tibio –fibulab) ClavicleCaudal Vertebrae

c) Radius - Skull

d) Ilium - Hind Limb
e) Cranium - fore Limb
f) Pygostyle - Pectoral girdle

7. **DISTINGUISH BETWEEN**

- a) Glottis and epiglottis
- b) Oviparous and viviparous
- c) Terrestrial and fossorial
- 8. What are the following?
 - a) Ductus caroticus
- b) Blubber
- c) Diastema
- 9. Draw a neat labeled diagram of the Internal Structure of the heart of Rabbit.
- 10. Mention the characteristic features of Dipnoi.

SECTION - B

ANSWER ANY FIVE QUESTIONS:

 $(5 \times 6 = 30)$

- 11. Briefly discuss the affinities of Amphioxus.
- 12. Explain retrogressive metamorphosis.
- 13. Explain the mechanism of pulmonary respiration in Frog.
- 14. Describe the structure of Brain of Shark.
- 15. Describe the urinogenital system of calotes.
- 16. Describe the flight muscles of Pigeon.
- 17. Write an account of Ratitae and their distribution.

SECTION - C

ANSWER ANY TWO QUESTIONS:

 $(2 \times 20 = 40)$

- 18. Give an account of the accessory respiratory organs in fishes.
- 19. Give an account of the structure and affinities of Petromyzon.
- 20. Write an essay on migration of birds.
- 21. Give a detailed account on dentition in Mammals.
