

**STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI 600 086**  
(For candidates admitted from the academic year 2011 - 2012)

**SUBJECT CODE: 11ZL/MC/CH24**

**B. Sc. DEGREE EXAMINATION APRIL 2012**

**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) Petromyzon larva is called \_\_\_\_\_.
- b) \_\_\_\_\_ is a lizard like amphibian with a distinct tail.
- c) Pigeon milk is produced in \_\_\_\_\_.
- d) Vertebrae of rabbit are of \_\_\_\_\_ type.
- e) The earliest fossils of Tetrapoda are known as \_\_\_\_\_.
- f) The third eyelid in frog is called \_\_\_\_\_.

**2. MENTION THE ZOOLOGICAL NAME OF THE FOLLOWING.**

- a) Rabbit
- b) Sea Horse
- c) Pigeon

**3. GIVE THE COMMON NAME OF THE FOLLOWING.**

- a) Scoliodon
- b) Echidna
- c) Rhacophorus

**4. NAME THE ORDER TO WHICH THE FOLLOWING BELONG TO**

- a) Calotes
- b) Ostrich
- c) Sphenodon

**5. GIVE THE FUNCTIONS OF THE FOLLOWING**

- a) Mermaid's purse
- b) Larynx
- c) Gizzard

**6. MATCH THE FOLLOWING**

- a) Keel - Ischium
- b) Pectoral Girdle - Femur
- c) Lower Jaw - Coracoid
- d) Pelvic Girdle - Humerus
- e) Fore Limb - Sternum
- f) Hind Limb - Mandible

**7. DISTINGUISH BETWEEN**

- a) Quill Feather & Down Feather
- b) Turtle & Tortoise
- c) Air bladder & Air Sacs

**8. WHAT ARE THE FOLLOWING**

- a) Placoid scale
- b) Caecum
- c) Synsacrum

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 X 6 = 30)**

- 11. Explain Retrogressive metamorphosis in Urochordata.
- 12. Briefly discuss the affinities of Petromyzon.
- 13. Write a short note on evolution of Tetrapod Limb.
- 14. Describe the structure of Brain of Frog.
- 15. Describe the Flight muscles of pigeon.
- 16. Describe the Urinogenital System of Shark.
- 17. Write an account on aquatic mammals.

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

- 18. Give an account of the parental care in fishes.
- 19. Write an essay on migration in birds.
- 20. Describe the poison apparatus and biting mechanism of snakes.
- 21. Write an essay on dentition in mammals.

\*\*\*\*\*