

**STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI 600 086**  
**(For candidates admitted from the academic year 2008-2009 & thereafter)**

**SUBJECT CODE: ZL/MC/CR24**

**B. Sc. DEGREE EXAMINATION APRIL 2009**  
**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) Functional unit of Kidney is \_\_\_\_\_.
  - b) Oviduct in Vertebrate is modified \_\_\_\_\_ duct.
  - c) Lungs of reptile are located in \_\_\_\_\_.
  - d) Amphioxus \_\_\_\_\_ feeder.
  - e) Body of scoliodon is covered by \_\_\_\_\_ scales.
  - f) The cavity of mid – brain is \_\_\_\_\_.
2. **MENTION THE ZOOLOGICAL NAME OF THE FOLLOWING:**
  - a) Shark                      b) Rabbit                      c) Frog
  - d) Blue Whale              b) Kangaroo                  f) Worm Snake
3. **GIVE THE COMMON NAME OF THE FOLLOWING:**
  - a) Myxine                      b) Balanoglossus                  c) Rhacophorus
  - d) Dasypus                      e) Rattus                                  f) Equus
4. **NAME THE ORDER TO WHICH THE FOLLOWING BELONG:**
  - a) Calotes                      b) Necturus                                  c) Elephant
  - d) Bat                                  e) Ostrich                                  f) Sphenodon
5. **GIVE THE FUNCTIONS OF THE FOLLOWING:**
  - a) Pancreas                      b) Vocal Sac                                  c) Peeten

6. **MATCH THE FOLLOWING**

- |                   |   |               |
|-------------------|---|---------------|
| a) Urochordata    | - | Balanoglossus |
| b) Amphioxus      | - | Humerus       |
| c) Acorn worm     | - | Autostylic    |
| d) Pelvic Girdle  | - | Brown funnel  |
| e) Fore limb      | - | Test          |
| f) Jaw suspension | - | Ilium         |

7. **DISTINGUISH BETWEEN**

- Agnatha and Gnathostomata
- Airbladder and Alveoli.
- Heterocercal and Homocercal

## 8. What are the following?

- Syrinx
- Pectoralis minor
- Uropygeal gland

## 9. Draw a labeled diagram of brain of Rabbit.

## 10. Mention the significance of single ovary in birds.

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

- With neat-labeled diagrams describe the structure of heart of frog.
- Comment on Palate in birds.
- Write a brief account on Egg laying mammals.
- Briefly discuss the affinities of Dipnoi.
- Describe the lateral line system in Scoliodon.
- Describe the metamorphosis of Ammocoetus Larva
- Give the main characteristics of Phylum Chordata.

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

- Write an Parental Care in fishes.
- Give an account on the poisonous snakes of India.
- Describe the respiratory system in pigeon.
- Discuss the retrogressive metamorphosis in urochordata.

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