

STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI 600 086
(For candidates admitted from the academic year 2005-2006 & thereafter)

SUBJECT CODE: ZL/MC/CH24

B. Sc. DEGREE EXAMINATION APRIL 2007
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) Green Tree Frog is _____
 - b) Special sensory pits of vipers are called _____
 - c) _____ is formed by the fusion of the vertebrae of Birds
 - d) Flightless birds are called _____
 - e) _____ is the Australian lung fish.
 - f) Common Indian Cobra is _____
2. **MENTION THE ZOOLOGICAL NAME FOR**
 - a) Saw Fish b) Bull Frog c) Krait d) Crow
 - e) Sparrow f) Domestic cat
3. **GIVE THE COMMON NAME FOR THE FOLLOWING**
 - a) *Sphyrna zygaena* b) *Necturus maculosus* c) *Hemidactylus flaviviridis*
 - d) *Eudynamis scolopaceus* e) *Manis tricuspis* f) *Felis tigris*
4. **NAME THE ORDER TO WHICH THE FOLLOWING BELONG**
 - a) Scoliodon b) Ichthyophis c) Calotes versicolor
 - d) Hydrophis e) Pelicans f) Equus caballus
5. **GIVE THE FUNCTIONS OF THE FOLLOWING**
 - a) Gizzard b) Ampulla of Lorenzini c) Air Bladder
6. **MATCH THE FOLLOWING**
 - a) Coracoid Process - Draco
 - b) Hyoid apparatus - Pelvic bone

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|-------------------------------|---|-----------------|
| c) Synsacrum | - | Pectoral Girdle |
| d) Illium | - | Lower Jaw |
| e) Typical Cervical Vertebrae | - | Pygostyle |
| f) Patagium | - | Procoelus |

7. **DISTINGUISH BETWEEN**

- Eutheria and Prototheria
- Viviparous and Oviparous
- Pharynx and Larynx.

8. What is

- Ductus Caroticus
- Atrium
- Syrinx

9. Draw a neat labeled diagram of the Brain of frog (Both Dorsal and ventral view)

10. Write short notes on Tornaria larva.

SECTION – B

ANSWER ANY FIVE QUESTIONS :

(5 X 6 = 30)

- Discuss the affinities of Amphioxus.
- List out the flight adaptations of Birds.
- With a neat-labeled diagram describe the urinogenital system of Calotes.
- Enumerate the structural peculiarities of Archaeopteryx.
- Give a short account on Neoteny in Urodela.
- Describe the Ammocoetus larva of Petromyzon.
- Classify Reptiles on the basis of skull pattern and explain.

SECTION – C

ANSWER ANY TWO QUESTIONS :

(2 X 20 = 40)

- Write an essay on Migration of Birds.
- Give a detailed account on Dipnoi and its affinities.
- Describe the poison apparatus of snakes and its biting mechanism. Differentiate poisonous from non-poisonous snakes.
- Describe the structure and working mechanism of the heart of a Rabbit.
