

B. Sc. DEGREE EXAMINATION APRIL 2014
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) Ammocoetes is a larval form of _____.
- b) Placoid scales are present in _____.
- c) Tiger salamander is also called as _____.
- d) In *Calotes* the carotid arches are connected to systemic arch by _____.
- e) Cere is present in _____.
- f) _____ of the brain is characteristic feature of mammals.

2. MENTION THE ZOOLOGICAL NAME OF THE FOLLOWING:

- a) Sucker fish b) South Indian Toad c) Land tortoise.
- d) Cobra e) Pigeon f) Rabbit.

3. GIVE THE COMMON NAME OF THE FOLLOWING:

- a) *Petromyzon* b) *Exocoetus* c) *Hyla*
- d) *Chelon mydas* e) *Psittacula krameri* f) *Rattus rattus*

4. NAME THE ORDER TO WHICH THE FOLLOWING BELONG:

- a) Ichthyophis b) Shark c) Lizards
- d) Snakes e) Pigeon f) Bats

5. GIVE THE FUNCTIONS OF THE FOLLOWING:

- a) Quill feather b) Ampullae of Lorenzini c) Crop

6. MATCH THE FOLLOWING:

- a) Hyoid skull
- b) Radius-ulna Hind limb
- c) Tibia-fibula lower jaw
- d) Ilium-pubis pectoral girdle
- e) Clavicle-sternum pelvic girdle
- f) Cranium Forelimb

7. DISTINGUISH BETWEEN:

- a) Oviparous and viviparous
- b) Toxin and venom
- c) Syrinx and larynx

8. What are the following?

- a) Fangs
- b) Pecten
- c) Diastema

9. Draw a neat labelled diagram of the synsacrum.

10. Mention the characteristic features of Apoda.

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

11. Briefly explain the retrogressive metamorphosis in Ascidia.

12. Explain the digestive system of shark.

13. Write short notes on neoteny in urodeles.

14. Describe the structure of poison apparatus and the biting mechanism of the snake.

15. Briefly describe the flight muscles of birds.

16. Give a brief account on Prototherians.

17. With neat labeled diagram, describe the structure and functions of the brain of Rabbit.

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

18. Describe the structure of Amphioxus and discuss in detail its affinities.

19. Explain the migration in birds.

20. Describe parental care in amphibians.

21. Give a detailed account on dentition in mammals.
