B. SC. DEGREE END SEMESTER EXAMINATION MARCH / APRIL 2018

SEMESTER – 2: ZOOLOGY (COMPLEMENTARY FOR BOTANY)

COURSE: **15U2CPZOO2 – ANIMAL DIVERSITY – CHORDATA**

(Common for Regular 2017 & Supplementary-improvement 2016 /2015 Admission)

Time: Three Hours   Max. Marks: 60

PART A
Answer all questions.

1. What is Nictitating membrane?
2. Differentiate between homeotherms and poikilotherms with examples.
3. Give one example each a) Chondrichthyes   b) Osteichthyes
4. What is corpus callosum?
5. Write the generic names of the following – a) sea squirt, b) Lancelet
6. What is pecten?
7. Write the generic name of Lamprey. Name its larva.
8. Comment on neoteny with an example.   (1 x 8 = 8)

PART B
Answer any 6 questions of the following.

9. Write a note on diapsida with an example.
10. Differentiate between Agnatha and Gnathostomata.
11. Comment on the evolutionary significance of *Latimeria*
12. What are neuromast sense organs?
13. List the primary chordate characters.
14. List the parasitic adaptations of lamprey.
15. Write the phylogenetic importance of Amphioxus.
16. List any four features of Prototheria.   (2 x 6 = 12)

PART C
Answer any 4 questions of the following.

17. Sketch and label the vertical section of frog heart.
18. Comment on the adaptations of aquatic mammals.
19. Write a short note on poisonous snakes of India.
20. Comment on evolutionary significance of Archaeopteryx.
21. Explain retrogressive metamorphosis with an example.
22. List any 8 general characters of Class Aves.   (4 x 4 = 16)

PART D
Answer any 2 questions of the following.

23. Write an essay on flight adaptations of birds.

24. Describe the arterial system of Frog with the help of a suitable diagram

25. Give an account on salient features and classification of Urochordata. Write a short account of examples for each class.

26. Write an essay on accessory respiration in fishes.   (12 x 2 = 24)