

15U412

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Name:

Reg.No.

FOURTH SEMESTER B.Sc. DEGREE EXAMINATION, MAY 2017

(CUCBCSS-UG)

Zoology - Core Course

CC15U ZO4 B04 - ANIMAL DIVERSITY: CHORDATA II

(2015 Admission)

Time: Three Hours

Maximum: 80 Marks

I. Answer all questions

A Fill up the blanks

1. Odd toed Ungulates are included in the Order -----.
2. The vascular body projecting into the vitreous humour from the blind spot of Pigeon's eye.
3. ----- is a heterocrine gland.
4. ----- is the sound producing organ of birds.
5. The jaw suspension in mammals is -----

B Name the following

6. Give the scientific name of 'Camel bird'.
7. The type of centrum in typical mammalian vertebrae.
8. The bone that keeps the wings apart in Pigeon.
9. The large phagocytic cells that lines the sinusoids in the liver lobule of Rabbit.
10. Arrangement of feathers on the body.

(10x1=10 marks)

II. Short Answer Questions. Answer any ten

11. Distinguish between Cristae and Maculae.
12. Explain (a) Diastema (b) Diphyodont dentition.
13. What is pigeon's milk? How is it formed?
14. Mention the adaptations of Order Chiroptera.
15. Distinguish between ilium and ileum.
16. What are tusks and trunk of Order Proboscidea?
17. Assign the following animals to their respective Orders
a. *Manis* b. *Ratufa* c. *Cynocephalus* d. *Suncus*
18. What is Synsacrum?
19. What is Coprophagy?

20. Mention the adaptations found in *Aptenodytes*.

21. What is Bursa of Fabricius?

22. What are carnassial teeth?

(10x2=20 marks)

III. Paragraph Questions. Answer any Five.

23. Comment on the type of feathers in Pigeon.

24. Give an account on Monotremes. Mention any two examples.

25. Write notes on any three Extinct birds.

26. How does the digestive system of *Oryctolagus* modified for its herbivorous mode of life?

27. Write down the evolutionary significance of *Archaeopteryx*.

28. Describe the flight muscles of *Columba*.

29. Comment on the aquatic Adaptations of Order Cetacea.

30. Describe the heart of *Oryctolagus* with the help of a neat diagram.

(5x6=30 marks)

IV. Essay Questions. Answer any two.

31. Give a comparative account of brain of *Columba* and *Oryctolagus*.

32. Describe the organs and mechanism of respiration in Pigeon. Illustrate your answer with labeled sketches.

33. With the help of suitable diagrams explain the Urinogenital organs in *Oryctolagus*.

34. Describe the salient features of Class Aves. Add notes on the differences between Ratitae and Carinatae. Give two examples for each.

(2x10=20 marks)
