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Name: .....

Reg. No.....

**FOURTH SEMESTER B.Sc. DEGREE EXAMINATION, APRIL 2021**

(CUCBCSS-UG)

**CC15U ZO4 B04 - ANIMAL DIVERSITY: CHORDATA PART II**

(Zoology - Core Course)

(2015 to 2018 Admission – Supplementary/Improvement)

Time: Three Hours

Maximum: 80 Marks

I. Answer *all* questions.

Fill up the blanks:

1. As per binomial nomenclature Indian elephant is called \_\_\_\_\_
2. Chemically, more than 90% of a feather is \_\_\_\_\_
3. The largest and the most powerful flight muscle in birds is \_\_\_\_\_
4. The only one type of ape found in India belongs to genus \_\_\_\_\_
5. Genus name of animal which acted as reservoir host in the recent Nipah virus attack in Kerala is \_\_\_\_\_

Name the following:

6. Valve which guards the opening of post cava in birds.
7. Smallest living flightless bird.
8. Horny sheath covering beak of birds.
9. Skeletal rod present in the tympanic cavity of *Columba*.
10. Arboreal Australian marsupial.

**(10 × 1 = 10 Marks)**

II. Short answer questions. Answer any *ten* questions.

11. How *Aptendodytes* is adapted to its habitat?
12. Write a note on dentition of *Oryctolagus*.
13. Mention the salient features of order Anseriformes.
14. Enlist the important features of *Ornithorhynchus*.
15. What is pigeon's milk? Write its use.
16. Explain the adaptations of *Cynocephalus*.
17. Comment on Carnassial dentition?
18. Explain renal portal system.
19. What is cloacal thymus? Why it is called so?

20. Name and comment on the function of male reproductive glands in *Oryctolagus*.
21. Briefly explain 'state of musth' in elephants.
22. Comment on the rediscovery of *Cursorius bitorquatus*.

**(10 × 2 = 20 Marks)**

III. Paragraph questions. Answer any *five* questions.

23. Explain the photoreceptor organ in *Columba*.
24. Describe the arterial system of *Oryctolagus*.
25. Explain the detailed structure of a typical feather.
26. Enlist the salient features of order Cetacea. With the help of examples explain the salient features of order Insectivora.
27. Write an account on extinct birds.
28. Comment on the Integumentary system of *Oryctolagus*.
29. Differentiate between Ratitae and Craniatae.
30. What are the aquatic adaptations found in mammals?

**(5 × 6 = 30 Marks)**

IV. Essay questions. Answer any *two* questions.

31. With the help of illustrations explain the respiratory system of *Columba* and add a note on its mechanism of respiration.
32. With the help of sketches comment on the urinogenital system of *Columba*.
33. Write a comparative note on the brain of *Columba* and *Oryctolagus*.
34. With the help of a labeled diagram describe the digestive system of *Oryctolagus*.

**(2 × 10 = 20 Marks)**

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