

2016

(2nd Semester)

ZOOLOGY

Paper : ZL-II

(**Biology of Chordates and
Comparative Anatomy**)

Full Marks : 55

Time : 2½ hours

(PART : B—DESCRIPTIVE)

(Marks : 35)

*The figures in the margin indicate full marks
for the questions*

1. Write an account on the affinities of Urochordata and Cephalochordata. $3\frac{1}{2}+3\frac{1}{2}=7$

Or

Write an account of the post-embryonic development in amphioxus. 7

2. Discuss the general characters of Amphibia. Differentiate between neoteny and paedogenesis. $4+3=7$

Or

Give an outline classification of Pisces up to orders. 7

3. Write a note on migration of birds. Add a few lines on stimulus of migration. $5+2=7$

Or

Outline the classification of mammals up to orders giving one example each. 7

4. What is digestion? Give a comparative structure of vertebrate heart. $1+6=7$

Or

Write an account on dermal derivatives of integument. 7

5. Discuss the composition and types of cartilage in vertebrates. $3+4=7$

Or

Write a short note on dentition in mammals. 7

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Subject Code : ZOO/II/02

Booklet No. A

Date Stamp

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To be filled in by the Candidate

DEGREE 2nd Semester
(Arts / Science / Commerce /
.....) Exam., **2016**

Subject

Paper

INSTRUCTIONS TO CANDIDATES

- 1. The Booklet No. of this script should be quoted in the answer script meant for descriptive type questions and vice versa.**
- 2. This paper should be ANSWERED FIRST and submitted within 45 minutes of the commencement of the Examination.**
- 3. While answering the questions of this booklet, any cutting, erasing, over-writing or furnishing more than one answer is prohibited. Any rough work, if required, should be done only on the main Answer Book. Instructions given in each question should be followed for answering that question only.**

To be filled in by the Candidate

DEGREE 2nd Semester
(Arts / Science / Commerce /
.....) Exam., **2016**

Roll No.

Regn. No.

Subject

Paper

Descriptive Type

Booklet No. B

*Signature of
Scrutiniser(s)*

*Signature of
Examiner(s)*

*Signature of
Invigilator(s)*

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(2nd Semester)

ZOOLOGY

Paper : ZL-II

(Biology of Chordates and Comparative Anatomy)

(PART : A—OBJECTIVE)

(Marks : 20)

The figures in the margin indicate full marks for the questions

SECTION—A

(Marks : 5)

- 1.** Put a Tick (✓) mark against the correct answer in the brackets provided : 1×5=5

(a) The principal diagnostic character of chordate is the presence of

(i) nerve cord ()

(ii) pharyngeal gill slits ()

(iii) notochord ()

(iv) chorion ()

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(2)

(b) Pairs of gill slits in bony fishes are

(i) one to three ()

(ii) three to four ()

(iii) five to seven ()

(iv) seven to ten ()

(c) In birds, heart is strictly

(i) four-chambered ()

(ii) two-chambered ()

(iii) three-chambered ()

(iv) five-chambered ()

(d) The length of alimentary canal is maximum in

(i) carnivores ()

(ii) herbivores ()

(iii) omnivores ()

(iv) detritivores ()

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(3)

(e) The longest bone in the body is

(i) humerus ()

(ii) ulna ()

(iii) tibia ()

(iv) femur ()

(4)

SECTION—B

(Marks : 15)

2. Write on the following :

3×5=15

(a) Characters of protochordates

(5)

(b) Different types of fish scale

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(6)

(c) Volant adaptation of birds

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(7)

(d) Receptors

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(8)

(e) Composition of bone

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