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(2nd Semester)

ZOOLOGY

SECOND PAPER

**(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 the salient features of protochordates.
Give an account of their affinities. 2+5=7

Or

Classify Agnatha up to orders with one
example each. 7

2. Give an outline classification of Amphibia up
to orders. 7

Or

Write the general characters of the class
Reptilia. 7

3. Explain the principle of flight in birds. 7

Or

Write the important characteristic features of
mammals. 7

4. Give a brief account of the urinogenital
system of chordates. 7

Or

Discuss briefly the evolutionary modification
of heart. 7

5. Write an account on the structure and
composition of bone. 7

Or

Write notes on the following : $3\frac{1}{2}+3\frac{1}{2}=7$

(a) Pectoral girdle

(b) Dentition in mammals

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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., **2017**

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., **2017**

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

SECOND PAPER

**(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) Development that begins after the emergence of the embryo from the egg is called

(i) embryonic development ()

(ii) pre-embryonic development ()

(iii) post-embryonic development ()

(iv) larval development ()

(2)

(b) Limbless amphibians belong to the order

(i) Gymnophiona ()

(ii) Anura ()

(iii) Opisthocoela ()

(iv) Caudata ()

(c) Biconcave and non-nucleated RBC is the characteristic feature of

(i) aves ()

(ii) mammals ()

(iii) camel ()

(iv) crocodile ()

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(3)

(d) Four-chambered heart is found in

(i) Varanus ()

(ii) Snakes ()

(iii) Turtles ()

(iv) Crocodiles ()

(e) Cartilage is composed of

(i) chondritin ()

(ii) chondrocytes ()

(iii) chromatophores ()

(iv) None of the above ()

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(4)

SECTION—B

(Marks : 15)

2. Write on the following :

3×5=15

(a) Basic characters of Chordates

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(5)

(b) Neoteny and paedogenesis

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(6)

(c) Affinities of birds

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(7)

(d) Different types of fish scales

(8)

(e) Types of cartilage

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