

2015

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

Or

Give an outline classification of Agnatha
up to orders. Give suitable examples to
each order. 5+2=7

G15—750/235a

(Turn Over)

2. Write an account of the locomotion in Pisces. 7

Or

Define the terms 'neoteny' and 'paedogenesis'.
Write an account of neoteny in Amphibia.

2+5=7

3. There is a general belief that birds have originated from reptilian stalk. Support the statement by citing *Archaeopteryx* as example. 7

Or

Write the important characteristic features of mammals.

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

Or

Write a note on the receptor organs of chordates.

5. Write an account of the dentition in mammals. 7

Or

Describe the structure of pectoral or pelvic girdle of vertebrate with suitable illustration.

5+2=7

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ZOOLOGY

Paper : ZL-II

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(PART : A—OBJECTIVE)

(Marks : 20)

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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 ()

(b) Turtle and tortoise belong to subclass

(i) Anapsida ()

(ii) Diapsida ()

(iii) Synapsida ()

(iv) Parapsida ()

(c) Birds are — animals.

(i) viviparous ()

(ii) oviparous ()

(iii) ovoviviparous ()

(iv) uniparous ()

(d) Four-chambered heart was found in

(i) varanus ()

(ii) snakes ()

(iii) turtles ()

(iv) crocodiles ()

(e) The number of cervical, thoracic and lumbar vertebrae of man is

(i) $C^7T^{12}L^5$ ()

(ii) $C^7T^{11}L^5$ ()

(iii) $C^7T^{12}L^4$ ()

(iv) $C^6T^{12}L^5$ ()

SECTION—B

(Marks : 15)

2. Write on the following :

3×5=15

(a) Basic characters of chordates

(b) Diadromy

- (i) C⁷T¹²L⁵
- (ii) C⁷T¹¹L⁵
- (iii) C⁷T¹²L⁴
- (iv) C⁶T¹²L⁵

(c) Reason of birds' migration

(Marks: 15)

3. Write on the following :

(a) Basic characters of Chordates

(d) Heart of mammals

(2nd Semester)

ZOOLOGY

Paper I 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) 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 ()

(e) Ligaments (b) Heart of mammalian is (b)

(i) Anapsida ()

(ii) Diapsida ()

(iii) Synapsida ()

(iv) Parapsida ()

(c) Birds are --- animals

(i) viviparous ()

(ii) oviparous ()

(iii) ovoviviparous ()

(iv) uniparous ()

(d) Four-chambered heart was found in

(i) varania ()

(ii) snake ()

(iii) birds ()

(iv) crocodile ()
