

Roll No. _____

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SCIIS-N-062 A-19

B.Sc II Semester (CBCS) Degree Examination

ZOOLOGY

(Comparative Anatomy and Developmental Biology of Vertebrates)

Paper - Z - 2

(New)

Time : 3 Hours

Maximum Marks : 80

Instructions to Candidate :

1. Answer from **ALL** the Sections.
2. Draw neat labelled diagrams wherever necessary.

Section - A

I. Answer any TEN of the following.

(10×2=20)

- 1) Urostyle.
- 2) Phalanges.
- 3) Spiral valve.
- 4) Air Sacs.
- 5) Aortic arches.
- 6) Values of Heart.
- 7) Spermeogenesis.
- 8) Egg membranes.
- 9) Implantation.
- 10) Poly Spermy.
- 11) Trophoblast
- 12) Gene activation.

Section - B

II. A. Answer any **TWO** of the following in brief : (2×5=10)

- 13) Pronephros.
- 14) Pectoral girdle of Frog.
- 15) Lateral line system.

B. Answer any **TWO** of the following in brief : (2×5=10)

- 16) Oogenesis.
- 17) Classification on Placenta based on histology.
- 18) Morphogenetic movements in Frog.

Section - C

III. A. Answer any **TWO** of the following in detail : (2×10=20)

- 19) Compare the Digestive system of Pigeon and Rabbit.
- 20) Epidermal glands.
- 21) Give the comparative account of Shark and Frog brain.

B. Answer any **TWO** of the following in detail : (2×10=20)

- 22) Embryonic Induction.
- 23) i) Patterns of Cleavage.
ii) Metamorphic events in Frog life cycle.
- 24) Fertilization in Mammals.

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