

Q.P. Code - 42247

Second Semester B.Sc. Degree Examination, September 2020

(RCBCS Scheme)

Zoology

**Paper II - COMPARATIVE ANATOMY AND DEVELOPMENTAL
BIOLOGY OF VERTEBRATES**

Time : 3 Hours]

[Max. Marks : 90

Instructions to Candidates : Draw neat labelled diagrams wherever necessary.

PART - A

1. Answer any **TEN** of the following : (10 × 2 = 20)
1. Mention the different types of Epidermal glands.
 2. Write a note on Bony scutes in Crocodile.
 3. Draw a neat labelled diagram of pectoral girdle of Rabbit.
 4. Compare the Liver of Frog with Rabbit.
 5. Name the Respiratory organs of Frog and Pigeon.
 6. What are Aortic arches?
 7. Write a note on Archinephros.
 8. What are Receptors? Give an example.
 9. Define Cleavage.
 10. What is Gametogenesis?
 11. Mention the basic types of Placenta.
 12. What is Implantation?

Q.P. Code - 42247

PART - B

II. Answer any **SIX** of the following : **(6 × 5 = 30)**

13. Write notes on Luminescent gland and mammary gland.
14. Compare the integument of Lizard and Pigeon.
15. Give a comparative account of Respiratory system in Frog and Rabbit.
16. Explain the structure of Metanephric kidney.
17. Trace the evolutionary trends in the Heart of Amphibia and Reptilia.
18. Explain Neurulation in Frog.
19. Mention the functions of Human Placenta.
20. Explain metamorphic events in Frog life cycle.

PART - C

III. Answer any **FOUR** of the following : **(4 × 10 = 40)**

21. Compare the pelvic girdle of Pigeon and Rabbit.
22. Give a comparative account of Alimentary canal in Pigeon and Rabbit.
23. Compare the brain of Frog and Lizard.
24. Explain the process of Oogenesis in Mammals.
25. Give a comparative account of Blastula of Frog and Chick.
26. Describe the Histological classification of Placenta with suitable examples.