

PRABHAT KUMAR COLLEGE, CONTAI

Question Paper

B.Sc. General Examination 2020

(Under CBCS Pattern)

Semester-II

Subject: ZOOLOGY

Paper : DSC-1B (T + P)

Comparative Anatomy & Developmental Biology of Vertebrates (Theory + Practical)

Candidates are requested to give their answer in their own word as far as practicable.

Questions are of equal value

Part: A: Theory

Answer any one question [within 250 words]

- 1 .Give an account of evolution of heart and aortic arches in vertebrates.
2. What do you mean by Metamorphosis? Mention six metamorphic events of tadpole larva. State the role of hormones in metamorphic event in frog life cycle.
- 3 .Define cleavage. State a brief account on different types of cleavage with example.
4. Write two function of skin. Name any four glands found in vertebrate skin and write their function.
5. What do you mean by polyspermy? How polyspermy is prevented? Briefly describe second blockage of polyspermy.
6. Write short note on Morphogenesis.
7. Write short note on embryonic induction.
8. What do you mean by J.G. A? Differentiate between PCT and DCT. Mention two hormones which are secreted from kidney and write their function.

Part: B: Practical

Answer any one question [within 150 words]

1. Write identifying characters of following slide
 - a. Discoidal placenta, b. Blastula of frog, and c. Sperm of rat.
2. Distinguish between Herbivorous and Carnivorous skull.
3. Write Identifying characters of carapace and plastron of turtle.

E-mail id for submission of answer script:[**zoopkceexam2g@gmail.com**](mailto:zoopkceexam2g@gmail.com)