



বিদ্যাসাগর বিশ্ববিদ্যালয়
VIDYASAGAR UNIVERSITY

Question Paper

B.Sc. Honours Examinations 2020

(Under CBCS Pattern)

Semester - VI

Subject: ZOOLOGY

Paper: CC - 13 (T + P) (Development Biology – Theory + Practical)

Full Marks: 40 (Theory) + 20 (Practical) = 60

Time: 4 Hours

Candidates are required to give their answer in their own words as far as practicable.

Questions are of equal value.

Answer any **one question** [within 250 words] from each Part.

Part A: Development Biology (Theory)

1. Write short notes on blocks to polyspermy in Sea Urchin .
2. Describe the process of regeneration in a suitable model you have studied.
3. Describe different types of eggs with example.
4. Write the role of Ca^{++} in fertilization?
5. Write down the molecular events during cleavage?
6. Describe the preparatory phase of gastrulation.



Part B: Development Biology (Practical)

1. Draw and label the 24 hours of chick embryo. Write down its identifying characters.
2. Draw and label the 48 hours of chick embryo. Write down its identifying characters.
3. Draw and label the 72 hours of chick embryo. Write down its identifying characters.
4. Draw and describe the life cycle of *Drosophila* sp.
5. Draw and label the epitheliochorial placenta. Write down its identifying characters.
6. Schematically describe the preparation of 'Drosophila culture medium'.

Vidyasagar University