

B.Sc. Semester - 4 (NEP-2020) Examination**March/April-2025****ZOO: Non-chordates -3, Genetics, Developmental Biology and Applied Zoology
(Major-8)****Time: 2:00 Hours****Marks: 50****Instructions:**

1. All questions are compulsory.
2. Figures to the right indicate marks.

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- Que-1 ANSWER THE FOLLOWING QUESTIONS. (10)
1. Give the classification of phylum Mollusca up to class.
 2. Describe Digestive system of Pila.
- OR
- Que-1 ANSWER THE FOLLOWING QUESTIONS.
1. Describe Torsion Detorsion in Gastropoda.
 2. Describe Nervous system of Pila.
- Que-2 ANSWER THE FOLLOWING QUESTIONS. (10)
1. Give the classification of Echinodermata up to class.
 2. Describe Ophiopluteus Larva.
- OR
- Que-2 ANSWER THE FOLLOWING QUESTIONS.
1. Describe water vascular system of class Asteroidea.
 2. Describe Echinoidea Larva.
- Que-3 ANSWER THE FOLLOWING QUESTIONS. (10)
1. Describe structure of chromosome.
 2. Describe lamp brush chromosome.
- OR
- Que-3 ANSWER THE FOLLOWING QUESTIONS.
1. Describe Kappa particles in Paramecium.
 2. Describe Human chromosome and karyotyping.
- Que-4 ANSWER THE FOLLOWING QUESTIONS. (10)
1. Describe haploid parthenogenesis with suitable examples.
 2. Describe House fly as insect affecting human health.
- OR
- Que-4 ANSWER THE FOLLOWING QUESTIONS.
1. Describe Regeneration in Salamander.
 2. Describe Termite as insect damaging house hold goods.
- Que-5 ANSWER THE FOLLOWING QUESTIONS. (10)
1. Describe Male reproductive system of Pila.
 2. Describe affinities of Balanoglossus.
- OR
- Que-5 ANSWER THE FOLLOWING QUESTIONS.
1. Describe Polytene chromosome.
 2. Describe rice weevil as insect damaging food product.
