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No. of Printed Pages : 1



Sl. No.

M.Sc. II Semester Degree Examination, Sept./Oct. - 2024

ZOOLOGY

**DSC - 6 : Developmental Biology and Molecular Endocrinology
(NEP)**

Time : 3 Hours

Maximum Marks : 70

Note : Answer **any five** of the following questions with question **No.1 compulsory**, each question carries **equal** marks.

1. Give a detailed account on questions of developmental biology and add a note on prevention of polyspermy. **14**
2. Write a short note on the following :
 - (a) Generation of Dorso-ventral polarity in *Drosophila* **7**
 - (b) Haematopoiesis **7**
3. Write short notes on the following :
 - (a) Neurotransmitters **4**
 - (b) General class of chemical messengers **5**
 - (c) Sodium homeostasis **5**
4. Describe the morphology of thyroid and parathyroid glands and add a note on their secretions. **14**
5. Explain the physiological roles of adrenal hormones adding a note on its disorders. **14**
6. Write short notes on the following :
 - (a) Maternal effector gene in *Drosophila* **7**
 - (b) Heterocrine pancreas **7**
7. Discuss rDNA technologies and its applications. **14**
8. Write short notes on the following :
 - (a) Pituitary gland **7**
 - (b) Gastro-intestinal hormones **7**

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