

Total No. of Printed Pages: 1

SUBJECT CODE NO: - FNP-6022
FACULTY OF SCIENCE AND TECHNOLOGY
MSC. S.Y. (SEM-III) (NEP Pattern-2023-2024) Zoology
Examination November / December 2025
Developmental Biology SAC166003T

[Time: 1:30 Hours]

[Max. Marks: 45]

Please check whether you have got the right question paper.

- N. B
- (i) Question paper is divided in Part A and part B is compulsory
 - (ii) Attempt any FIVE questions from the Part B
 - (iii) Draw well labelled diagrams whenever necessary.

PART - A**Q1 Attempt the following multiple choice questions:****10**

- The process of forming a mature female gamete is called _____.
 a) Menstruation b) Spermatogenesis
 c) Oogenesis d) Ovulation
- Eggs with a large amount of yolk concentrated at one pole are classified as:
 a) Isolecithal b) Mesolecithal
 c) Telolecithal d) Centrolecithal
- _____ is the process by which stem cells divide to make more stem cells.
 a) Self-renewal b) Propagation
 c) Thrombopoiesis d) Migration
- Viruses which infect bacteria are called _____.
 a) bacteria b) archaea
 c) pUC d) bacteriophages
- Which of the following scientists discovered the Y-chromosome?
 a) Stevens b) Ernst Haeckel
 c) Francis Crick d) Wilson

PART-B (Attempt any FIVE)

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| Q2 Explain the structure of sperm and egg in mammal. | 7 |
| Q3 Describe metamorphosis in different animals. | 7 |
| Q4 Discuss in details the stem cells and Imprinting. | 7 |
| Q5 Explain the differentiation of neurons with suitable diagram. | 7 |
| Q6 Describe the different types of eggs of animals. | 7 |
| Q7 Give an account on extra embryonic membrane formation. | 7 |