

Roll.No.

20UFMCT1002

SHRIMATHI DEVKUNVAR NANALAL BHATT VAISHNAV COLLEGE FOR WOMEN  
(AUTONOMOUS)

(Affiliated to the University of Madras and Re-accredited with 'A+' Grade by NAAC)

Chromepet, Chennai - 600 044.

B.Sc.NFSMD - END SEMESTER EXAMINATIONS - NOVEMBER 2025

SEMESTER - I

**20UFMCT1002 - Human Physiology**

Total Duration : 2 Hrs.30 Mins.

Total Marks : 60

### **Section B**

Answer any **SIX** questions ( $6 \times 5 = 30$  Marks)

1. Explain the process of mitosis and its significance.
2. Illustrate the structure and function of a neuron.
3. Analyze the role of platelets in blood coagulation.
4. Describe the mechanism of respiration in humans.
5. Define the structure and function of epithelial tissue.
6. Examine the cardiac cycle and its phases.
7. Discuss the digestion and absorption of proteins.
8. Justify the hormonal regulation of the menstrual cycle.

### **Section C**

Answer any **THREE** questions ( $3 \times 10 = 30$  Marks)

9. Apply your understanding of cell division to explain its role in tissue growth and repair.
10. Differentiate between the central and peripheral nervous system with suitable diagrams.
11. Infer the physiological basis of blood pressure regulation and its implications.
12. Examine the anatomy and physiology of the respiratory system and its role in gaseous exchange.
13. Evaluate the hormonal interplay during conception and lactation.

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