



Rita A. Patel Institute of Physiotherapy

The Charutar Vidya Mandal (CVM) University



INTERNAL EXAMINATION
JANUARY- 2026
BACHELOR OF PHYSIOTHERAPY
FIRST SEMESTER

Course Name: Human Physiology-1

Course Code: BPT-102

DATE: 16/01/2026

TIME: 11:00 am to 12:00 pm

TOTAL MARKS: 30

Instructions:

1. Examinees must bring their ID card every day.
2. Read the questions carefully.
3. You **must not** talk to, attempt to communicate with or disturb another candidate.
4. Possession of a mobile phone and any other material is prohibited.
5. Draw and label the diagram wherever necessary.

A. Multiple Choice Questions (All compulsory)

(6 x 1 = 6)

- Write down the one correct answer for MCQ in supplementary.

1. Universal recipient blood group is:

- a. O
- b. A
- c. AB
- d. B

2. Active transport requires:

- a. Diffusion gradient
- b. ATP
- c. Osmosis
- d. Filtration

3. Powerhouse of the cell is:

- a. Ribosome
- b. Mitochondria
- c. Golgi apparatus
- d. Lysosome

4. Resting membrane potential of neuron is:

- a. -70 mV
- b. -90 mV
- c. -40 mV
- d. +30 mV

5. Vitamin K is essential for synthesis of:

- a. RBC
- b. Hemoglobin
- c. Clotting factors
- d. Platelets

6. Structural unit of skeletal muscle is:

- a. Myofibril
- b. Actin
- c. Myosin
- d. Sarcomere

B. Write Short notes (Any Two)

(2 x 2 = 4)

- 1. Name any two organelles involved in protein synthesis.
- 2. What is ESR? Mention a one clinical significance.
- 3. Name two properties of nerve fibers.

C. Write Short notes (Any Two)

(5 x 2 = 10)

- 1. Describe classification and functions of WBCs.
- 2. Describe the structure and functions of the cell membrane.
- 3. Describe Rh blood group system and erythroblastosis fetalis.

D. Write Long notes (Any One)

(10 x 1 = 10)

- 1. Describe RBCs in detail – count, variations, erythropoiesis, hemoglobin, and applied aspects of anemia.
- 2. Explain structure, classification, and functions of neurons, including nerve injury and regeneration.