

VEER NARMAD SOUTH GUJARAT UNIVERSITY

EXAMINATION MARCH- 2026

FIRST YEAR BHMS CBDC SEMESTER 1

Subject Code: 2407000301030701

Paper: HUMAN PHYSIOLOGY & BIOCHEMISTRY PAPER-1



Time: 3 Hours

Total Marks: 100

Q.1 Multiple Choice Questions (All ARE COMPULSORY). (10)

1. Which connective tissue surrounds an individual muscle fiber?
 - a. Epimysium
 - b. Perimysium
 - c. Endomysium
 - d. Sarcolemma

2. The outer boundary of a human cell is called:
 - a. Cell wall
 - b. Plasma membrane
 - c. Nuclear membrane
 - d. Cytoskeleton

3. Increase in Partial Pressure of Carbon Dioxide in Arterial Blood Causes.....
 - a. Alkalosis
 - b. Acidosis
 - c. Osmosis
 - d. Homeostasis

4. Passage of water across the selectively permeable membrane is.....
 - a. Osmosis
 - b. Active Transport
 - c. Facilitated diffusion
 - d. pinocytosis

5. Folic acid deficiency causes which type of anemia?
 - a. Aplastic anemia
 - b. Thalassemia
 - c. Sickle cell anemia
 - d. Megaloblastic anemia

6. Cardiac output is not affected by-
 - a. Systolic blood pressure
 - b. Heart rate
 - c. Peripheral resistance
 - d. Venous return

7. The air that most in and out of the lungs during normal quiet breathing is called.....
- Tidal volume
 - Vital capacity
 - Inspiration
 - Hypoxia
8. Which of the following is not function of the kidney?
- Regulation of blood pressure
 - Production of Erythropoietin
 - Activation of vitamin D
 - Secretion of renin in response to high blood pressure
9. Which layer of the epidermis is found only on the palms and soles?
- Melanin
 - Stratum Lucidum
 - Stratum Basale
 - Stratum Germinativum
10. The resting membrane potential of skeletal muscle is.....
- 70mV
 - 90mV
 - 55mV
 - + 30mV

Q.2 SHORT ANSWER QUESTIONS (ALL COMPULSORY). (40)

- Nucleus
- Diffusion
- Acquired immunity
- Heart Sounds
- Hypoxia
- Micturition Reflex
- Glands of skin
- Describe structure of Myoneural junction discuss the myoneural transmission.

Q.3 FULL QUESTIONS (ALL COMPULSORY). (50)

- Define Erythropoiesis & Describe the all stages of erythropoiesis in detail
- Define coagulation. Explain stages of clotting mechanism.
- Define cardiac cycle. Discuss the events of cardiac cycle in detail
- Describe in detail Nervous mechanism of regulation of respiration.
- Describe in detail about Urine formation.