

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**B. Pharm. - SEMESTER-I • EXAMINATION – WINTER-2025**

**Subject Code: BP101TP****Date: 20/02/2026****Subject Name: HUMAN ANATOMY & PHYSIOLOGY I****Time: 10:30am to 01:30pm****Total Marks: 80****Instructions:**

1. Attempt any five questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

<b>Q.1</b>	<b>(a)</b> What is Homeostasis? Explain Negative feedback system with suitable example	<b>06</b>
	<b>(b)</b> Explain Physiology of Vision	<b>05</b>
	<b>(c)</b> Explain blood-clotting cascade.	<b>05</b>
<b>Q.2</b>	<b>(a)</b> Describe location, structure and functions of each different type of epithelium	<b>06</b>
	<b>(b)</b> Explain different types of transport process across a cell membrane.	<b>05</b>
	<b>(c)</b> Explain physiology of muscle contraction.	<b>05</b>
<b>Q.3</b>	<b>(a)</b> Sketch labelled diagram of Skin. Enlist functions of Skin	<b>06</b>
	<b>(b)</b> Write a note on Neuromuscular junction	<b>05</b>
	<b>(c)</b> Explain various forms of intracellular signaling	<b>05</b>
<b>Q.4</b>	<b>(a)</b> Describe composition & functions of blood	<b>06</b>
	<b>(b)</b> Write a note on Appendicular Skeleton System	<b>05</b>
	<b>(c)</b> Illustrate schematic representation of Hemopoiesis	<b>05</b>
<b>Q.5</b>	<b>(a)</b> Write structural classification of Joint. Explain features of Synovial joint	<b>06</b>
	<b>(b)</b> Define Following terms 1. Physiology    2. Anterior    3. Proximal    4. Anemia    5. Myopia	<b>05</b>
	<b>(c)</b> Write a note on Cardiac Cycle	<b>05</b>
<b>Q.6</b>	<b>(a)</b> Compare and Contrast between Sympathetic Nervous System and Parasympathetic Nervous System	<b>06</b>
	<b>(b)</b> Describe formation, circulation and functions of Lymph	<b>05</b>
	<b>(c)</b> How Blood Pressure is regulated? Explain	<b>05</b>
<b>Q.7</b>	<b>(a)</b> Write a note on Cranial nerves	<b>06</b>
	<b>(b)</b> Describe structure and functions of Spleen	<b>05</b>
	<b>(c)</b> What is ECG? Relate the Systole and diastole of atria and ventricle with ECG	<b>05</b>

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