

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**B.PHARM – SEMESTER –1 EXAMINATION – SUMMER-2024**

**Subject Code: BP101TP****Date: 06/06/2024****Subject Name: Human Anatomy and Physiology I****Time: 02.30 p.m. to 5.30 p.m.****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>	(a) Draw a labelled diagram of cell. Write a note on ribosomes.	<b>06</b>
	(b) Classify tissues and write on nervous tissues.	<b>05</b>
	(c) Classify joints. Write on fibrous joints.	<b>05</b>
<b>Q.2</b>	(a) Discuss blood cell formation process.	<b>06</b>
	(b) Give functions of haemoglobin.	<b>05</b>
	(c) Write on junctional tissues of heart.	<b>05</b>
<b>Q.3</b>	(a) Explain cardiac cycle.	<b>06</b>
	(b) Give bones of Axial skeleton.	<b>05</b>
	(c) Explain various cell transport mechanisms.	<b>05</b>
<b>Q.4</b>	(a) Discuss composition and functions of lymph.	<b>06</b>
	(b) Give functions of white blood cells.	<b>05</b>
	(c) Write a note on blood group.	<b>05</b>
<b>Q.5</b>	(a) Explain blood clotting process.	<b>06</b>
	(b) Explain physiology of muscle contraction.	<b>05</b>
	(c) Give functions of skin.	<b>05</b>
<b>Q. 6</b>	(a) Detail on cranial nerves, types and related functions.	<b>06</b>
	(b) Explain systemic circulation in heart.	<b>05</b>
	(c) Draw a labelled diagram of eye.	<b>05</b>
<b>Q.7</b>	(a) Define cardiac output and write on factors affecting it.	<b>06</b>
	(b) Explain physiology of hearing.	<b>05</b>
	(c) Explain functions of plasma proteins.	<b>05</b>

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