

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**B.PHARM. – SEMESTER I – • EXAMINATION – SUMMER-2018**

**Subject Code: BP101TP****Date: 01/05/2018****Subject Name: Human Anatomy and Physiology I****Time: 02:30PM TO 05:30PM****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>	(a) Define Homeostasis. Explain negative feedback system by giving suitable example.	<b>06</b>
	(b) Classify Tissues. Explain epithelial tissues in detail.	<b>05</b>
	(c) Write short note on protein synthesis.	<b>05</b>
<b>Q.2</b>	(a) Write in detail about the different transport mechanisms across cell membrane.	<b>06</b>
	(b) Explain the blood coagulation process.	<b>05</b>
	(c) Explain ABO system of blood.	<b>05</b>
<b>Q.3</b>	(a) Explain the anatomy of the heart with labelled schematic diagram.	<b>06</b>
	(b) Write a short note on cardiac cycle.	<b>05</b>
	(c) Define blood pressure. Write a note on renin angiotensin system.	<b>05</b>
<b>Q.4</b>	(a) Enlist different types of joints. Write a note on synovial joints.	<b>06</b>
	(b) Explain anatomy and physiology of spleen.	<b>05</b>
	(c) Explain physiology of muscle contraction.	<b>05</b>
<b>Q.5</b>	(a) Explain the process of “Cell division”	<b>06</b>
	(b) Write composition, function and circulation of Lymph.	<b>05</b>
	(c) Write a note on structure and function of bone.	<b>05</b>
<b>Q.6</b>	(a) Draw a labeled diagram of eye-ball.	<b>06</b>
	(b) Describe physiology of hearing with suitable diagram.	<b>05</b>
	(c) Write a note on general functions of blood.	<b>05</b>
<b>Q.7</b>	(a) Explain following terms Myocardial infarction, Glaucoma, Myopia, Leukaemia, Hypertension, Arthritis	<b>06</b>
	(b) Draw a labeled diagram of skull showing all parts of it and explain any two bones of skull.	<b>05</b>
	(c) Write difference between parasympathetic and sympathetic system.	<b>05</b>

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