

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**B.Ph. - SEMESTER– III • EXAMINATION – WINTER -2023**

**Subject Code:BP304TT**  
**Subject Name: Pathophysiology**  
**Time: 10:30 AM TO 1:30 PM**

**Date: 18/01/2024**

**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) Explain the various mechanisms of pathogenesis of cell injury.	<b>06</b>
	(b) Discuss etiology and pathophysiology of congestive heart failure.	<b>05</b>
	(c) Discuss the pathogenesis of asthma.	<b>05</b>
<b>Q.2</b>	(a) Describe the risk factors, symptoms and pathogenesis of peptic ulcer.	<b>06</b>
	(b) Describe the symptoms and pathophysiology of acute renal failure.	<b>05</b>
	(c) Discuss the symptoms, etiology and diagnosis of diabetes mellitus.	<b>05</b>
<b>Q.3</b>	(a) Discuss the symptoms, pathogenesis and treatment of depression.	<b>06</b>
	(b) Discuss the etiological factors and diagnosis of ulcerative colitis.	<b>05</b>
	(c) Write the pathophysiology of rheumatoid arthritis.	<b>05</b>
<b>Q.4</b>	(a) Discuss the risk factors, diagnosis and pathogenesis of cancer.	<b>06</b>
	(b) Explain the symptoms, etiology and diagnosis of Tuberculosis.	<b>05</b>
	(c) Discuss the sign, symptoms and complications of urinary tract infections.	<b>05</b>
<b>Q.5</b>	(a) Write mechanisms of different types of inflammation.	<b>06</b>
	(b) Discuss the pathophysiology of AIDS.	<b>05</b>
	(c) Write etiological factors and pathophysiology of hypertension.	<b>05</b>
<b>Q. 6</b>	(a) Define Homeostasis. Explain the regulatory mechanisms of homeostasis.	<b>06</b>
	(b) Enlist various types of anemia and write a note on sickle cell anemia.	<b>05</b>
	(c) Write sign, symptoms and pathophysiology of Alzheimer's disease.	<b>05</b>
<b>Q.7</b>	(a) Describe the etiology, pathogenesis and diagnosis of atherosclerosis.	<b>06</b>
	(b) Describe the etiology and pathophysiology of hyperthyroidism.	<b>05</b>
	(c) Discuss the sign, symptoms and diagnosis of osteoporosis.	<b>05</b>

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