

GUJARAT TECHNOLOGICAL UNIVERSITY
B.PHARM – SEMESTER – 3 EXAMINATION – WINTER-2025

Subject Code: BP304TT**Date: 15-12-2025****Subject Name: Pathophysiology****Time:10:30 AM TO 01:30 PM****Total Marks: 80****Instructions:**

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

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| Q.1 | (a) Discuss risk factors, symptoms and pathogenesis of the asthma. | 06 |
| | (b) Explain role of the cellular events in the acute inflammation. | 05 |
| | (c) Write etiology and pathogenesis of the rheumatoid arthritis. | 05 |
| Q.2 | (a) Define convulsion and seizure. Explain different types of the generalized epilepsy. | 06 |
| | (b) Write cause, risk factors and pathogenesis of the AIDS. | 05 |
| | (c) Explain the genesis of cancer. | 05 |
| Q.3 | (a) Define cellular adaptation. Discuss different types of the cellular adaptations with suitable examples. | 06 |
| | (b) Enumerate types of anemia. Write a note on megaloblastic anemia. | 05 |
| | (c) Write a note on urinary tract infection. | 05 |
| Q.4 | (a) Discuss pathogenesis and complications of the type-2 diabetes mellitus. | 06 |
| | (b) Define inflammatory bowel diseases. Differentiate ulcerative colitis and crohn's disease. | 05 |
| | (c) Write a note on wound healing in the skin. | 05 |
| Q.5 | (a) Discuss risk factors, clinical manifestations and pathogenesis of the Parkinson's disease. | 06 |
| | (b) Write etiology and pathogenesis of the acute renal failure. | 05 |
| | (c) Write causes, symptoms and pathogenesis for typhoid. | 05 |
| Q. 6 | (a) Discuss pathogenesis and complications of the hyperthyroidism. | 06 |
| | (b) Explain various chemical mediators involved in acute inflammation. | 05 |
| | (c) Enlist types of hepatitis. Write symptoms and pathogenesis of hepatitis B. | 05 |
| Q.7 | (a) Define hypertension. Write pathogenesis and complications of the hypertension. | 06 |
| | (b) Differentiate the apoptosis and necrosis. | 05 |
| | (c) Write cause, symptoms and pathogenesis of the tuberculosis. | 05 |
