

Seat No.: \_\_\_\_\_

Enrolment No. \_\_\_\_\_

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**B.Pharm - SEMESTER- III • EXAMINATION – SUMMER -2020**

**Subject Code: BP304TT**  
**Subject Name: Pathophysiology**  
**Time: 2:30 PM TO 5:30 PM**

**Date: 04-11-2020****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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|-------------|---|-----------|
| <b>Q.1</b>  | (a) Differentiate Asthma and COPD. Enlist various risk factors for asthma.                          | <b>06</b> |
|             | (b) Discuss etiology and pathophysiology of congestive heart failure.                               | <b>05</b> |
|             | (c) Explain pathogenesis and clinical manifestations of peptic ulcer disease.                       | <b>05</b> |
| <b>Q.2</b>  | (a) Explain various mechanisms of pathogenesis of cell injury.                                      | <b>06</b> |
|             | (b) Describe cellular adaptive changes against injury.  | <b>05</b> |
|             | (c) Write a note on Apoptosis.  | <b>05</b> |
| <b>Q.3</b>  | (a) Describe pathophysiology and sign-symptoms of UTI.  | <b>06</b> |
|             | (b) Explain causes and pathogenesis of atherosclerosis.   | <b>05</b> |
|             | (c) Discuss pathophysiology of Alzheimer's disease.   | <b>05</b> |
| <b>Q.4</b>  | (a) Discuss different types of vascular events of acute inflammation.                               | <b>06</b> |
|             | (b) Write a note on Phagocytosis.   | <b>05</b> |
|             | (c) Enlist various chemical mediators of inflammation. Describe plasma derived mediators in detail. | <b>05</b> |
| <b>Q.5</b>  | (a) 1. Describe various types of hepatitis.   | <b>06</b> |
|             | 2. Differentiate Ulcerative colitis and Crohn's disease.  |           |
|             | (b) Explain pathophysiology and clinical manifestations of Parkinson's disease.                     | <b>05</b> |
|             | (c) Discuss pathophysiology of AIDS.  | <b>05</b> |
| <b>Q. 6</b> | (a) Describe in detail various types of anemia.   | <b>06</b> |
|             | (b) Compare and contrast Rheumatoid arthritis and Gout.   | <b>05</b> |
|             | (c) Describe pathophysiology and sign-symptoms of acute renal failure.                              | <b>05</b> |
| <b>Q.7</b>  | (a) Explain cause and pathogenesis of Tuberculosis. Discuss DOT therapy in brief.                   | <b>06</b> |
|             | (b) Describe etiology and pathophysiology of hypothyroidism.  | <b>05</b> |
|             | (c) Classify cancer. Discuss pathogenesis of cancer.  | <b>05</b> |

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