

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

**Subject Code: BP304TT****Date: 04-11-2020****Subject Name: Pathophysiology****Time: 2:30 PM TO 5:30 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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|-------------|-----|-------------------------------------------------------------------------------------------------|-----------|
| <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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