

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**B.Pharm. - SEMESTER – III • EXAMINATION – SUMMER - 2021**

**Subject Code: BP304TT****Date: 01/09/2021****Subject Name: Pathophysiology****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.

- Q.1** (a) Discuss the pathophysiology and pharmacological management of Parkinsonism. **06**  
 (b) Explain the mechanism of increased vascular permeability in acute inflammation. **05**  
 (c) Enlist chemical mediators involved in inflammation. Explain the role of histamine in inflammation. **05**
- Q.2** (a) Describe clinical presentation, diagnosis and pharmacotherapy of Angina pectoris. **06**  
 (b) Write in detail about mechanism of cell injury. **05**  
 (c) Define: Hypertrophy, Atrophy, Hyperplasia, Necrosis, and Homeostasis. **05**
- Q.3** (a) Explain in details about the pathophysiology of Atherosclerosis. **06**  
 (b) Explain the pathogenesis behind peptic ulcer disease. How gastric ulcer can be differentiated from duodenal ulcer? **05**  
 (c) Discuss the therapeutic options in management of Alzheimer's disease. **05**
- Q.4** (a) Write a note on pathophysiology and management of congestive heart failure. **06**  
 (b) Describe the signs and symptoms and management of acute renal failure **05**  
 (c) Write the diagnosis and pharmacotherapeutic approach for Rheumatoid arthritis. **05**
- Q.5** (a) Describe the pathology of AIDS and its clinical manifestations in detail. **06**  
 (b) Explain the pathogenesis of asthma. Write differences between Bronchial asthma and COPD **05**  
 (c) Describe the treatment of grand mal epilepsy in detail. **05**
- Q.6** (a) Write pathophysiology, risk factors, diagnosis, complications, and treatment management options of Hepatitis B. **06**  
 (b) Explain various etiological factors and clinical management of Tuberculosis. **05**  
 (c) Explain the drugs used for the treatment of Gonorrhoea. **05**
- Q.7** (a) Classify types of hypertension. Write a note on risk factors and management of Hypertension. **06**  
 (b) Write a note on risk factors and long term complications of diabetes mellitus. **05**  
 (c) Enlist various types of Anemia and write a note on iron deficiency anemia. **05**

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