

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**PHARM.D YEAR-2 EXAMINATION – SUMMER - 2025**

**Subject Code: 828801****Date: 02-05-2025****Subject Name: Pathophysiology****Time: 10:30 A.M. TO 1:30 P.M.****Total Marks: 70****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) | Explain hypersensitivity and enumerate its classifications. Discuss any two types in detail.                  | 06 |
|      | (b) | Elaborate on the factors that increase the risk and the underlying physiological mechanisms of peptic ulcers. | 04 |
|      | (c) | Describe in detail glycogen storage diseases with examples.   | 04 |
| Q.2  | (a) | Enlist sexually transmitted diseases and explain about Gonorrhoea and Syphilis.                               | 06 |
|      | (b) | What are the etiology and pathogenesis of COPD?   | 04 |
|      | (c) | Discuss metastasis stage of cancer.   | 04 |
| Q.3  | (a) | Detail the causes and physiological processes involved in tuberculosis.                                       | 06 |
|      | (b) | Enumerate on types of shock with their stages and mechanism.  | 04 |
|      | (c) | Write in detail the pathogenesis of Parkinsonism.   | 04 |
| Q.4  | (a) | Elucidate risk factors and pathogenesis of pneumonia.   | 06 |
|      | (b) | Explain about the process involved in chronic inflammation.   | 04 |
|      | (c) | Differentiate between benign and malignant tumors.  | 04 |
| Q.5  | (a) | Explore the mechanisms involved in the development of both acute and chronic renal failure.                   | 06 |
|      | (b) | Provide the symptoms and describe the physiological mechanisms underlying malaria.                            | 04 |
|      | (c) | Define Cell Injury. Explain its Etiology and Pathogenesis.  | 04 |
| Q. 6 | (a) | Provide an overview of amyloidosis.   | 06 |
|      | (b) | Explain pathogenesis of starvation.   | 04 |
|      | (c) | Write a note on biological effects of radiation.  | 04 |
| Q.7  | (a) | Write in detail pathophysiology of diabetes mellitus and its complications.                                   | 06 |
|      | (b) | What is Hepatitis? Discuss in detail the types of hepatitis.  | 04 |
|      | (c) | Briefly discuss T & B Lymphocytes.  | 04 |

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