

GUJARAT TECHNOLOGICAL UNIVERSITY
B.Pharm - SEMESTER– III • EXAMINATION – SUMMER 2017

Subject code: 230005

Date: 09/06/2017

Subject Name: Pathophysiology

Time: 02:30 PM to 05:30 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) What is Inflammation? Explain chemical mediators of inflammation. | 06 |
| | (b) Describe process of apoptosis. Explain its significance. | 05 |
| | (c) Describe biological effects of radiation. | 05 |
| Q.2 | (a) What is cellular adaptation? Differentiate between atrophy and hypertrophy. | 06 |
| | (b) Enlist components of extracellular matrix. Describe its significance. | 05 |
| | (c) What is autoimmunity? Write a note on Rheumatoid arthritis. | 05 |
| Q.3 | (a) Write short note on | 06 |
| | 1. Systemic Lupus Erythematosus | |
| | 2. AIDS | |
| | (b) Explain in detail mechanism of allograft rejection. | 05 |
| | (c) Discuss etiology and pathogenesis of fatty liver. | 05 |
| Q.4 | (a) Explain the terms | 06 |
| | 1. Hyperplasia | |
| | 2. Necrosis | |
| | (b) What is hypersensitivity reaction? Explain different types of hypersensitivity reactions. | 05 |
| | (c) Differentiate between Marasmus and Kwashiorkor. | 05 |
| Q.5 | (a) Describe cellular and molecular mechanism of cell injury due to ischemia. | 06 |
| | (b) Explain the process of wound healing by secondary union. | 05 |
| | (c) Discuss pathogenesis of Nutritional Deficiency Diseases. | 05 |
| Q. 6 | (a) Write note on | 06 |
| | 1. Amyloidosis | |
| | 2. Protein energy malnutrition | |
| | (b) Explain the HLA system and major histocompatibility complex. | 05 |
| | (c) What are abnormal intracellular accumulations? Explain pathological conditions associated with excessive accumulation of intracellular glycogen. | 05 |
| Q. 7 | (a) Write note on | 06 |
| | 1. Environmental pollutants | |
| | 2. Calcification | |
| | (b) What is obesity? Discuss etiology and metabolic changes associated with obesity. | 05 |
| | (c) Write a note on growth factors involved in tissue repair. | 05 |
