

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
B. Pharm. - SEMESTER-3 • EXAMINATION – SUMMER -2018

Subject Code: 230005

Date: 07/05/2018

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) | Discuss the cellular and molecular mechanism of reversible and irreversible cell injury due to ischaemia. | 06 |
| | (b) | Describe causes and pathological changes underlying atrophy. | 05 |
| | (c) | Write a note on tissue regeneration process. | 05 |
| Q.2 | (a) | Define apoptosis. Describe causes, molecular mechanism and importance of apoptosis. | 06 |
| | (b) | Discuss in detail about on Amyloidosis. | 05 |
| | (c) | Write a note on components of extracellular matrix. | 05 |
| Q.3 | (a) | Define radiation injury. Explain mechanisms involved in radiation induced damage to the DNA of cell. | 06 |
| | (b) | Write a note on pathogenesis of rheumatoid arthritis. | 05 |
| | (c) | Write note on HLA system and its importance | 05 |
| Q.4 | (a) | Enlist various hypersensitivity reactions. Discuss mechanisms involved in cell mediated immunity. | 06 |
| | (b) | Describe cellular events in acute inflammation. Explain chemotaxis. | 05 |
| | (c) | Write a note on wound healing process. | 05 |
| Q.5 | (a) | Define autoimmunity and classify autoimmune disease. Write a note on Systemic Lupus Erythematosus. | 06 |
| | (b) | Describe the role of different systems in generation of plasma derived mediators. | 05 |
| | (c) | Write in detail about effector mechanism of graft rejection. | 05 |
| Q. 6 | (a) | Discuss the cells of immune system and their function. | 06 |
| | (b) | Write in detail about pathogenesis of HIV infections. | 05 |
| | (c) | Explain pathogenesis of calcification | 05 |
| Q.7 | (a) | Write about etiology of obesity. Explain its metabolic changes. | 06 |
| | (b) | Discuss pathogenesis of nutritional deficiency diseases. | 05 |
| | (c) | Write a note on therapeutic drug induced adverse reactions. | 05 |
