

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
B.PHARM – SEMESTER – 3- EXAMINATION –WINTER - 2018

Subject Code:230005

Date: 12/12/2018

Subject Name: Pathophysiology

Time:10:30 AM TO 01:30 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) Write etiology of cell injury. Explain its pathophysiology in detail. | 06 |
| | (b) Differentiate: Apoptosis and Necrosis. Justify the significance of Apoptosis. | 05 |
| | (c) Explain the pathogenesis of Calcification. | 05 |
| Q.2 | (a) Define inflammation. Explain pathogenesis of acute inflammation. | 06 |
| | (b) Justify the role of various chemical mediators in inflammation. | 05 |
| | (c) Explain pathogenesis of Obesity. | 05 |
| Q.3 | (a) Explain various components of extra cellular matrix. | 06 |
| | (b) Write in detail the sequence of events in the repair of skin wounds. | 05 |
| | (c) Write a note on common diseases caused by occupational exposure. | 05 |
| Q.4 | (a) Describe the term: Autoimmunity. Explain mechanism of auto immunity. | 06 |
| | (b) Explain Hypersensitivity reaction type IV. | 05 |
| | (c) Write in detail about Allograft rejection. | 05 |
| Q.5 | (a) Explain the mode of transmission, causative organism and pathogenesis of AIDS. | 06 |
| | (b) Write a note on Protein calorie malnutrition. | 05 |
| | (c) Explain the term: Chemotaxis | 05 |
| Q. 6 | (a) Discuss the biological effects of radiation. | 06 |
| | (b) Explain various glycogen storage diseases. | 05 |
| | (c) Write a note on Vitamin B12 deficiency. | 05 |
| Q.7 | (a) Explain various metabolic changes occur during starvation. | 06 |
| | (b) Write a note on Amyloidosis. | 05 |
| | (c) What is Atrophy? Explain various pathological causes of atrophy. | 05 |
