

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 |
