

GUJARAT TECHNOLOGICAL UNIVERSITY

B.Pharm – SEMESTER-III – EXAMINATION – SUMMER-2016

Subject Code: 230005

Date: 13/05/2016

Subject Name: Pathophysiology

Time: 2:30 PM to 5:30 PM

Total Marks: 80

Instructions:

1. Attempt any five questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- | | | |
|-------------|---|-----------|
| Q.1 | (a) Enumerate causes of cell injury and Explain cellular and molecular mechanism of irreversible cell injury. | 06 |
| | (b) Define apoptosis. Explain molecular mechanism and importance of apoptosis. | 05 |
| | (c) Explain the terms: Hypertrophy, Atrophy, Hyperplasia, Metaplasia. | 05 |
| Q.2 | (a) Define acute inflammation and write in detail about cell events occur in acute inflammation. | 06 |
| | (b) Explain the mechanism of allograft rejection. | 05 |
| | (c) Write a note on protein energy malnutrition. | 05 |
| Q.3 | (a) Explain sequence of events in primary skin wounds. How does the secondary union of skin wounds differ from primary union? | 06 |
| | (b) Discuss the etiology of starvation and the metabolic changes take place in starvation. | 05 |
| | (c) Write a note on extracellular matrix | 05 |
| Q.4 | (a) Define and classify amyloidosis. Explain the pathogenesis and clinical manifestations in amyloidosis. | 06 |
| | (b) Discuss the etiology and pathogenesis of fatty liver. | 05 |
| | (c) Enlist process of healing of skin wounds. Explain angiogenesis. | 05 |
| Q.5 | (a) Define autoimmunity. Explain pathogenesis and clinical manifestation of rheumatoid arthritis. | 06 |
| | (b) Explain vitamin B ₁₂ deficiency. | 05 |
| | (c) Write a note on vasoactive amines. | 05 |
| Q. 6 | (a) Discuss etiology, pathogenesis and clinical manifestations of AIDS. | 06 |
| | (b) Write a note on pathogenesis of Systemic Lupus Erythematosus. | 05 |
| | (c) Write a note on carbon monoxide poisoning. | 05 |
| Q. 7 | (a) Biological effects of radiation. | 06 |
| | (b) Give difference between (i) Chemotaxis and Phagocytosis and (ii) Dystrophic and Metastatic calcification. | 05 |
| | (c) Define necrosis. Give its type and associated morphological changes. | 05 |
