

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

B. Pharmacy Sem-III Remedial Examination 2010

Subject code: 230005

Subject Name: Pathophysiology

Date: 12 /03 / 2010

Time: 10.30 am – 01.30 pm

Instructions:

Total Marks: 80

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

- Q.1** (a) Write underlying changes in biochemical systems of cells for irreversible cell injury. **06**
(b) Discuss pathogenesis of HIV infections. **05**
(c) Enlist cellular events in acute inflammation. Explain chemotaxis. **05**
- Q.2** (a) Write a note on etiology of cell injury **06**
(b) Enumerate various forms of hypersensitivity reactions. Explain mechanisms involved in cell mediated immunity. **05**
(c) Describe pathological changes in apoptosis. **05**
- Q.3** (a) Enlist chemical mediators of inflammation. Write a note on complement system. **06**
(b) Define autoimmunity. Write a note on immune tolerance. **05**
(c) Write pathological changes of systemic sclerosis. **05**
- Q.4** (a) Give classification of amyloidosis. Write pathological changes in amyloidosis of heart. **06**
(b) Discuss pathogenesis of nutritional deficiency diseases. **05**
(c) Write pathogenesis of autoimmunity. **05**
- Q.5** (a) Discuss etiology of obesity. Explain its metabolic changes. **06**
(b) Write causes and pathological changes underlying atrophy. **05**
(c) Write a note on tissue regeneration process. **05**
- Q. 6** (a) Define radiation injury . Explain mechanisms involved in radiation-induced damage to the DNA of cell. **06**
(b) Discuss causes and pathological changes of rickets lesions. **05**
(c) Write a note on protein caloric malnutrition. **05**
- Q.7** (a) Enlist processes of healing of skin wounds. Explain sequence of events in primary union of skin wounds. **06**
(b) What are abnormal intracellular accumulations. Explain pathological conditions associated with excessive accumulation of intracellular glycogen. **05**
(c) Write a note on cytokines? **05**
