

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

B.Pharm Sem-III Remedial Examination May 2011

Subject code: 230005

Subject Name: Pathophysiology

Date: 28/05/2011

Time : 10.30a.m. – 01.30 p.m.

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) Explain the mechanism of increased vascular permeability in acute inflammation **06**
(b) Enumerate cells involved in immune mechanisms stating their significance **05**
(c) Explain pathogenesis of calcification **05**
- Q.2** (a) Enumerate chemical mediators of inflammation and detail their reactions. **06**
(b) Explain the HLA system and major histocompatibility complex. **05**
(c) Define apoptosis. Explain its causes and significance **05**
- Q.3** (a) Define-homeostasis; hypertrophy; hyperplasia; atrophy; metaplasia; autophagy **06**
(b) Discuss biological effects of radiation **05**
(c) Growth factors are an integral part of cell growth-Discuss **05**
- Q.4** (a) Detail the process of Phagocytosis **06**
(b) Write biological significance and deficiency diseases of retinol and calcitriol. **05**
(c) Detail mechanism of allograft rejection **05**
- Q.5** (a) Explain the process of angiogenesis. **06**
(b) Detail causes and effects of air pollution **05**
(c) Explain pathogenesis of rheumatoid arthritis **05**
- Q.6** (a) Write a note on cells involved in chronic inflammation **06**
(b) Alcohol abuse causes fatty changes in liver-Discuss **05**
(c) Give similarities and dissimilarities between marasmus and kwashiorkor **05**
- Q.7** (a) Define hypersensitivity reaction; classify them and write a note on delayed type hypersensitivity reaction **06**
(b) How does tissue repair occur in skin **05**
(c) Define necrosis. Give its types and associated morphological changes. **05**
