

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**B. Pharm. – SEMESTER – III • EXAMINATION – WINTER • 2016**

**Subject Code: 230005****Date: 29-11-2016****Subject Name: Pathophysiology****Time: 02:30 pm - 05:00 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) Discuss the food sources and functions of Vit. A. Mention diseases developing due deficiency of Vit.A **06**  
(b) Give the aetiology of Cell Injury. **05**  
(c) Write a short note on- Tissue Regeneration Process. **05**
- Q.2** (a) Explain in detail pathogenesis of Reversible Cell Injury. **06**  
(b) Describe the systemic effects and possible outcomes of Acute Inflammation. **05**  
(c) Define Autoimmune Diseases and discuss pathogenesis of Rheumatoid Arthritis. **05**
- Q.3** (a) Define Protein Calorie Malnutrition (PCM) and give contrasting features of Kwashiorkor and Marasmus. **06**  
(b) Discuss Steatosis (Fatty changes) as Intracellular accumulation. **05**  
(c) Write a short note on- Obesity. **05**
- Q.4** (a) Enumerate the principal Cellular Adaptive Responses. Discuss morphological features of Hypertrophy and give its physiological and pathological causes. **06**  
(b) Differentiate between Dystrophic and Metastatic Calcification. **05**  
(c) Write a short note on- Primary Air Pollutants. **05**
- Q.5** (a) Define Necrosis and discuss briefly about different types of Necrosis. **06**  
(b) Explain the pathological aspects of Repair. **05**  
(c) Write a short note on- Granulomatous Inflammation. **05**
- Q. 6** (a) Define Inflammation and explain the vascular events of Acute Inflammation. **06**  
(b) Explain the process of repair of wound in skin. **05**  
(c) Write a short note on- Hypersensitivity reactions. **05**
- Q.7** (a) Define Apoptosis and explain molecular mechanism of Apoptosis. **06**  
(b) Describe the functions of Vit.C and explain about diseases developing due to deficiency of Vit C. **05**  
(c) Write a short note on- Biological Effects of Radiation. **05**

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