

GUJARAT TECHNOLOGICAL UNIVERSITY

B. Pharm. – SEMESTER – III • EXAMINATION – WINTER • 2015

Subject Code: 230005

Date: 08-01-2016

Subject Name: Pathophysiology

Time: 10:30 am - 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.**

- Q.1** (a) Explain the mechanism of increased vascular permeability in acute inflammation. **06**
(b) Explain detail pathophysiology of fatty liver. **05**
(c) Write a note on free radical induced cell injury. **05**
- Q.2** (a) Classify the chemical mediators of inflammation and explain plasma derived mediators of inflammation. **06**
(b) Explain followings: (Any five) **05**
(1) Healing (2) Auto immunity (3) Chemotaxis (4) Pavementing
(5) Suppuration (6) Heterotrophic calcification
(c) Write a note on Amyloidosis. **05**
- Q.3** (a) Define cellular adaptation. Enlists the various adaptation mechanism of cell injury and explain Atrophy in detail. **06**
(b) Explain the HLA system and major histocompatibility complex. **05**
(c) Differentiate between Apoptosis and Necrosis. **05**
- Q.4** (a) Discuss the etiology, mechanism of transmission, pathogenesis and clinical manifestation of AIDS. **06**
(b) Explain pathogenesis of Rheumatoid arthritis. **05**
(c) Explain detail physiology of Phagocytosis. **05**
- Q.5** (a) Explain the sequence of events in primary and secondary union of skin wound. **06**
(b) Write a note on protein calorie malnutrition. **05**
(c) Define obesity and explain various pathological and metabolic changes occur in obesity. **05**
- Q. 6** (a) Write a note on hypersensitivity reaction. **06**
(b) Explain the mechanism of rejection of allograft in host. **05**
(c) Write a note on CO poisoning. **05**
- Q.7** (a) Explain the pathogenesis of ischemia induced reversible cell injury. **06**
(b) Write biological effects of radiation. **05**
(c) Explain vitamin B₁₂ deficiency. **05**
