

GUJARAT TECHNOLOGICAL UNIVERSITY

B. Pharm. SEMESTER – III (OLD Syllabus) • EXAMINATION – SUMMER • 2015

Subject Code: 230005

Date: 15-06-2015

Subject Name: Pathophysiology

Time: 02:30 pm - 05:30 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) Define apoptosis. Explain pathologic changes of apoptosis & its significance. **06**
(b) Define & classify cellular adaptation. Write the physiological & pathological causes of atrophy. **05**
(c) Discuss the difference between Apoptosis & Necrosis. **05**
- Q.2** (a) Enlist the cell & plasma derived inflammatory mediators. Write in detail about plasma derived inflammatory mediators. **06**
(b) Write in detail about vascular events of acute inflammation. **05**
(c) Explain the process of wound healing. **05**
- Q.3** (a) Enumerate the types of hypersensitivity reactions. Explain about pathogenesis of B-cell mediated hypersensitivity reactions. **06**
(b) Discuss the etiology & pathophysiology of obesity **05**
(c) What is calcification? Discuss types of calcifications with suitable examples **05**
- Q.4** (a) Discuss the pathogenesis, clinical manifestations and diagnosis of AIDS. **06**
(b) Discuss the pathogenesis of autoimmunity. **05**
(c) Write note on biological effects of radiation. **05**
- Q.5** (a) Define angiogenesis. Write note on mechanism of tissue repair. **06**
(b) Define & classify amyloidosis. Write note on senile cardiac amyloidosis. **05**
(c) Write note on extracellular matrix-cell interaction. **05**
- Q. 6** (a) Discuss the underlying changes in reversible & irreversible cell injury due to ischemia/hypoxia. **06**
(b) Classify nutritional diseases. Write note on Vitamin B₁₂ deficiency. **05**
(c) Write note on protein energy malnutrition. **05**
- Q.7** (a) What are intracellular accumulations? Explain the pathologic condition associated with excessive intracellular accumulation of triglycerides. **06**
(b) Discuss the pathogenesis of Rheumatoid arthritis. **05**
(c) Write note on air pollutants. **05**
