Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

B.Pharm - SEMESTER– III • EXAMINATION – SUMMER 2017

Subject code: 230005 **Date: 09/06/2017**
Subject Name: Pathophysiology
Time: 02:30 PM to 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)	What is Inflammation? Explain chemical mediators of inflammation.	**06**
	(b)	Describe process of apoptosis. Explain its significance.	**05**
	(c)	Describe biological effects of radiation.	**05**
Q.2	(a)	What is cellular adaptation? Differentiate between atrophy and hypertrophy.	**06**
	(b)	Enlist components of extracellular matrix. Describe its significance.	**05**
	(c)	What is autoimmunity? Write a note on Rheumatoid arthritis.	**05**
Q.3	(a)	Write short note on 1. Systemic Lupus Erythematosus 2. AIDS	**06**
	(b)	Explain in detail mechanism of allograft rejection.	**05**
	(c)	Discuss etiology and pathogenesis of fatty liver.	**05**
Q.4	(a)	Explain the terms 1. Hyperplasia 2. Necrosis	**06**
	(b)	What is hypersensitivity reaction? Explain different types of hypersensitivity reactions.	**05**
	(c)	Differentiate between Marasmus and Kwashiorkor.	**05**
Q.5	(a)	Describe cellular and molecular mechanism of cell injury due to ischemia.	**06**
	(b)	Explain the process of wound healing by secondary union.	**05**
	(c)	Discuss pathogenesis of Nutritional Deficiency Diseases.	**05**
Q. 6	(a)	Write note on 1. Amyloidosis 2. Protein energy malnutrition	**06**
	(b)	Explain the HLA system and major histocompatibility complex.	**05**
	(c)	What are abnormal intracellular accumulations? Explain pathological conditions associated with excessive accumulation of intracellular glycogen.	**05**
Q. 7	(a)	Write note on 1. Environmental pollutants 2. Calcification	**06**
	(b)	What is obesity? Discuss etiology and metabolic changes associated with obesity.	**05**
	(c)	Write a note on growth factors involved in tissue repair.	**05**

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