

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
B. Pharm. - SEMESTER-3 • EXAMINATION – SUMMER -2018

Subject Code: 230005
Subject Name: Pathophysiology
Time: 02:30 PM TO 05:30 PM

Date: 07/05/2018
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 cellular and molecular mechanism of reversible and irreversible cell injury due to ischaemia.	06
	(b)	Describe causes and pathological changes underlying atrophy.	05
	(c)	Write a note on tissue regeneration process.	05
Q.2	(a)	Define apoptosis. Describe causes, molecular mechanism and importance of apoptosis.	06
	(b)	Discuss in detail about on Amyloidosis.	05
	(c)	Write a note on components of extracellular matrix.	05
Q.3	(a)	Define radiation injury. Explain mechanisms involved in radiation induced damage to the DNA of cell.	06
	(b)	Write a note on pathogenesis of rheumatoid arthritis.	05
	(c)	Write note on HLA system and its importance	05
Q.4	(a)	Enlist various hypersensitivity reactions. Discuss mechanisms involved in cell mediated immunity.	06
	(b)	Describe cellular events in acute inflammation. Explain chemotaxis.	05
	(c)	Write a note on wound healing process.	05
Q.5	(a)	Define autoimmunity and classify autoimmune disease. Write a note on Systemic Lupus Erythematosus.	06
	(b)	Describe the role of different systems in generation of plasma derived mediators.	05
	(c)	Write in detail about effector mechanism of graft rejection.	05
Q. 6	(a)	Discuss the cells of immune system and their function.	06
	(b)	Write in detail about pathogenesis of HIV infections.	05
	(c)	Explain pathogenesis of calcification	05
Q.7	(a)	Write about etiology of obesity. Explain its metabolic changes.	06
	(b)	Discuss pathogenesis of nutritional deficiency diseases.	05
	(c)	Write a note on therapeutic drug induced adverse reactions.	05
