

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

B. Pharm. – SEMESTER – III • EXAMINATION – SUMMER • 2014

Subject Code: 230005

Date: 12-06-2014

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 following terms: 1. Hypoplasia 2. Hypertrophy 3. Autophagy 4. Calcification 5. Steatosis 6. Lipofuscin	06
	(b) Write in detail on type I and type IV hypersensitivity.	05
	(c) Enlist criteria for diagnosis of obesity. Write its etiology and pathogenesis.	05
Q.2	(a) Explain hypoxic and ischemic injury.	06
	(b) Write in brief on pathogenesis of AIDS.	05
	(c) Describe role of complement system in inflammation.	05
Q.3	(a) Enumerate vascular and cellular events of acute inflammation. Explain process of phagocytosis.	06
	(b) Describe mechanism of immunological tolerance.	05
	(c) Explain process of scar formation.	05
Q.4	(a) Enlist chemical mediators of inflammation. Write a note on cytokines.	06
	(b) Differentiate process of necrosis and apoptosis.	05
	(c) Write a note on granulomatous inflammation.	05
Q.5	(a) Discuss role of cyclin-CDK system in regulation of cell cycle.	06
	(b) Write pathogenesis and clinical manifestation of amyloidosis.	05
	(c) Describe angiogenesis with its significance in wound healing.	05
Q. 6	(a) Define cellular adaptation. Describe each type of adaptations.	06
	(b) Describe pathogenesis of rheumatoid arthritis.	05
	(c) Write causes and symptoms of kwashiorkor.	05
Q. 7	(a) Differentiate following: MHC-I and MHC-II CD4 cell and CD8 cell Organ specific and systemic autoimmunity	06
	(b) Explain mechanism of cell damage by radiation. Write short note on acute radiation syndrome.	05
	(c) Enlist environmental pollutants. Write short note on carbon monoxide.	05
