

GUJARAT TECHNOLOGICAL UNIVERSITY
B. PHARM. - SEMESTER – III • EXAMINATION – WINTER 2012

Subject code: 230005**Date: 04/01/2013****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) Define apoptosis. Discuss the causes and mechanism of apoptosis.	06
	(b) Discuss chemical mediators of inflammation.	05
	(c) Write a note on hazards of smoking on health.	05
Q.2	(a) Mention causes of cellular injury. Write in detail about mechanism of cell injury.	06
	(b) Define immunity. Write in detail about adaptive immunity.	05
	(c) Discuss Type IV hypersensitivity reactions.	05
Q.3	(a) What are extra cellular matrix components? Discuss their functions and importance.	06
	(b) Write a note on starvation.	05
	(c) Write in detail about vitamin A toxicity.	05
Q.4	(a) Write in detail about cellular adaptations.	06
	(b) Explain the role of MHC in disease.	05
	(c) Write a note on Rheumatoid arthritis	05
Q.5	(a) Explain Necrosis. Describe morphological and biochemical features of necrosis.	06
	(b) Write a note on immunological tolerance.	05
	(c) Discuss pathogenesis of AIDS.	05
Q. 6	(a) Discuss common diseases caused by environmental and occupational exposure.	06
	(b) Discuss biological effects of radiation.	05
	(c) Write a note on amyloidosis.	05
Q.7	(a) Discuss basic mechanisms involved in inflammation.	06
	(b) Discuss in detail Immune complex disease in humans.	05
	(c) Describe in brief glycogen storage diseases	05
