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Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

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

Subject Code: 230005 Date: 29-12-2014

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)	Explain the terms: 1. Atrophy 2. Natural killer cell 3. Metaplasia 4. Dystrophic calcification 5. MHC molecule 6. Xenograft	**06**
	(b)	Explain in brief about pathogenesis of reversible cell injury due to hypoxia/ischaemia.	**05**
	(c)	Write a note on types of necrosis.	**05**
Q.2	(a)	What is apoptosis? Explain in brief about molecular mechanism of apoptosis.	**06**
	(b)	Explain in detail about pathogenesis of HIV infection.	**05**
	(c)	Write a note on etiology and pathogenesis of obesity.	**05**
Q.3	(a)	Define hypersensitivity. Write in detail about Type I (anaphylactic) hypersensitivity.	**06**
	(b)	Explain in brief about mechanism of allograft rejection.	**05**
	(c)	Write a note on pathogenesis of amyloidosis.	**05**
Q.4	(a)	Enlist various autoimmune diseases. Write a note on etiology and pathogenesis of systemic lupus erythematosus (SLE).	**06**
	(b)	Explain in brief about granulomatous inflammation.	**05**
	(c)	Write a note on pathogenesis of autoimmunity.	**05**
Q.5	(a)	Define inflammation. Write in detail about cellular events occur in acute inflammation.	**06**
	(b)	Explain in detail about pathogenesis of free radical mediated cell injury due to hypoxia/ischaemia.	**05**
	(c)	Give difference between kwashiorkor and marasmus.	**05**
Q. 6	(a)	What is healing? Write in detail about sequence of events in primary union of skin wounds.	**06**
	(b)	Write in detail about components of extracellular matrix (ECM).	**05**
	(c)	Write a note on fatty liver.	**05**
Q.7	(a)	Enlist cell derived mediators of acute inflammation. Write a note on cytokines.	**06**
	(b)	Explain in detail about disorders related to deficiency of water soluble vitamins.	**05**
	(c)	Discuss in brief about biological effects of radiation.	**05**

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