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Seat No.: _____ Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

B.PHARM - SEMESTER– 3 EXAMINATION – SUMMER -2019

Subject Code: 230005 **Date: 07-06-2019**

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)**	Enumerate the types of hypersensitivity reactions. Explain about pathogenesis of B-cell mediated hypersensitivity reactions	**06**
	(b)	Classify nutritional diseases. Write note on Vitamin B12 deficiency.	**05**
	(c)	Write note on amyloidasis.	**05**
Q.2	**(a)**	Discuss pathologic basis of fatty liver.	**06**
	(b)	What is calcification? Discuss types of calcifications with suitable examples.	**05**
	(c)	Write a note on carbon monoxide poisoning.	**05**
Q.3	**(a)**	Discuss common diseases caused by environmental and occupational exposure.	**06**
	(b)	Define healing. Discuss primary union of skin wounds.	**05**
	(c)	Explain the mechanisms of rejection of allografts in hosts.	**05**
Q.4	**(a)**	Discuss basic mechanisms involved in inflammation.	**06**
	(b)	Define immunity. Add a note on adaptive immunity.	**05**
	(c)	Write a note on obesity.	**05**
Q.5	**(a)**	Define apoptosis. Write in detail about mechanism of apoptosis.	**06**
	(b)	Write a note on biological effects of radiation.	**05**
	(c)	Explain the terms: i. Natural killer cell ii. T lymphocytes iii. MHC molecule iv. Central tolerance v. Polyarteritis Nodosa	**05**
Q. 6	**(a)**	Explain the cellular and molecular mechanism of reversible and irreversible injury due to hypoxia/ischemia .	**06**
	(b)	Differentiate kwashiorkor and marasmus	**05**
	(c)	Discuss pathogenesis of AIDS.	**05**
Q.7	**(a)**	Enlist various autoimmune diseases. Write a note on etiology and pathogenesis of systemic lupus erythematosus (SLE).	**06**
	(b)	Write in detail about components of extracellular matrix (ECM).	**05**
	(c)	Describe in brief glycogen storage diseases	**05**

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