Seat No.: _____ Enrolment No _____

GUJARAT TECHNOLOGICAL UNIVERSITY

B. Pharm. SEMESTER – III (OLD Syllabus) • EXAMINATION – SUMMER • 2015

Subject Code: 230005 **Date: 15-06-2015**

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 apoptosis. Explain pathologic changes of apoptosis & its significance.	**06**
	(b)	Define & classify cellular adaptation. Write the physiological & pathological causes of atrophy.	**05**
	(c)	Discuss the difference between Apoptosis & Necrosis.	**05**
Q.2	(a)	Enlist the cell & plasma derived inflammatory mediators. Write in detail about plasma derived inflammatory mediators.	**06**
	(b)	Write in detail about vascular events of acute inflammation.	**05**
	(c)	Explain the process of wound healing.	**05**
Q.3	(a)	Enumerate the types of hypersensitivity reactions. Explain about pathogenesis of B-cell mediated hypersensitivity reactions.	**06**
	(b)	Discuss the etiology & pathophysiology of obesity	**05**
	(c)	What is calcification? Discuss types of calcifications with suitable examples	**05**
Q.4	(a)	Discuss the pathogenesis, clinical manifestations and diagnosis of AIDS.	**06**
	(b)	Discuss the pathogenesis of autoimmunity.	**05**
	(c)	Write note on biological effects of radiation.	**05**
Q.5	(a)	Define angiogenesis. Write note on mechanism of tissue repair.	**06**
	(b)	Define & classify amyloidosis. Write note on senile cardiac amyloidosis.	**05**
	(c)	Write note on extracellular matrix-cell interaction.	**05**
Q. 6	(a)	Discuss the underlying changes in reversible & irreversible cell injury due to ischemia/hypoxia.	**06**
	(b)	Classify nutritional diseases. Write note on Vitamin B_{12} deficiency.	**05**
	(c)	Write note on protein energy malnutrition.	**05**
Q.7	(a)	What are intracellular accumulations? Explain the pathologic condition associated with excessive intracellular accumulation of triglycerides.	**06**
	(b)	Discuss the pathogenesis of Rheumatoid arthritis.	**05**
	(c)	Write note on air pollutants.	**05**

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