Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

B. Pharm. – SEMESTER – III • EXAMINATION – WINTER • 2016

Subject Code: 230005 **Date: 29-11-2016**
Subject Name: Pathophysiology
Time: 02:30 pm - 05:00 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)	Discuss the food sources and functions of Vit. A. Mention diseases developing due deficiency of Vit.A	**06**
	(b)	Give the aetiology of Cell Injury.	**05**
	(c)	Write a short note on- Tissue Regeneration Process.	**05**
Q.2	(a)	Explain in detail pathogenesis of Reversible Cell Injury.	**06**
	(b)	Describe the systemic effects and possible outcomes of Acute Inflammation.	**05**
	(c)	Define Autoimmune Diseases and discuss pathogenesis of Rheumatoid Arthritis.	**05**
Q.3	(a)	Define Protein Calorie Malnutrition (PCM) and give contrasting features of Kwashiorkar and Marasmus.	**06**
	(b)	Discuss Steatosis (Fatty changes) as Intracellular accumulation.	**05**
	(c)	Write a short note on- Obesity.	**05**
Q.4	(a)	Ennumerate the principal Cellular Adaptive Responses. Discuss morphological features of Hypertrophy and give its physiological and pathological causes.	**06**
	(b)	Differentiate between Dystrophic and Metastatic Calcification.	**05**
	(c)	Write a short note on- Primary Air Pollutants.	**05**
Q.5	(a)	Define Necrosis and discuss briefly about different types of Necrosis.	**06**
	(b)	Explain the pathological aspects of Repair.	**05**
	(c)	Write a short note on- Granulomatous Inflammation.	**05**
Q. 6	(a)	Define Inflammation and explain the vascular events of Acute Inflammation.	**06**
	(b)	Explain the process of repair of wound in skin.	**05**
	(c)	Write a short note on- Hypersensitivity reactions.	**05**
Q.7	(a)	Define Apoptosis and explain molecular mechanism of Apoptosis.	**06**
	(b)	Describe the functions of Vit.C and explain about diseases developing due to deficiency of Vit C.	**05**
	(c)	Write a short note on- Biological Effects of Radiation.	**05**

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