Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

BPHARM – SEMESTER – I • EXAMINATION – WINTER 2012

Subject code: 210001 **Date: 23-01-2013**

Subject Name: Anatomy Physiology & Health Education (APHE-I)

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)	Enumerate various processes that transport substances across the plasma membrane. Describe in detail active transport process.	**06**
	(b)	Enumerate various blood groups and write in detail about common blood types. Explain briefly hemolytic disease of the newborn.	**05**
	(c)	Write a note on nucleus.	**05**
Q.2	(a)	Write a short note on Mitosis.	**06**
	(b)	What are different types of epithelial tissues and describe them in detail.	**05**
	(c)	Describe physiology of liver.	**05**
Q.3	(a)	Describe in detail chemical digestion in the intestine.	**06**
	(b)	Explain physiology of muscle contraction.	**05**
	(c)	Write a note on Synovial joint.	**05**
Q.4	(a)	Describe following terminologies: i) Peptic ulcer disease ii) Arthritis iii) Jaundice	**06**
	(b)	Draw a labeled diagram of neuron. Write briefly about neuromuscular junction.	**05**
	(c)	Write a note on eicosanoids.	**05**
Q.5	(a)	Describe briefly various phases of gastric secretion.	**06**
	(b)	Explain role of histamine in the inflammation and allergy.	**05**
	(c)	Describe in detail fate of RBC.	**05**
Q. 6	(a)	Describe briefly mechanism of blood clotting.	**06**
	(b)	Discuss Lymph formation and it's composition.	**05**
	(c)	Enumerate various types of Anemia. Write in detail any one of them.	**05**
Q.7	(a)	Explain in detail innate immunity and adaptive immunity.	**06**
	(b)	Write a note on Reticulo- endothelial system.	**05**
	(c)	Describe anatomy and physiology of the spleen.	**05**

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