Seat No.: _____ *Enrolment No._____*

GUJARAT TECHNOLOGICAL UNIVERSITY

B. Pharmacy Sem-I Remedial Examination March / April 2010

Subject code: 210001

Subject Name: Anatomy physiology & Health Education (APHE-1)

Date: 30 / 03 /2010 **Time: 11.00 am- 02.00 pm**

Instructions: **Total Marks: 80**

1. **Attempt any five questions.**
2. **Make suitable assumptions wherever necessary.**
3. **Figures to the right indicate full marks.**

Q.1	(a)	Explain the function of principle organells.	**06**
	(b)	Draw a representative sketch of a typical cell.	**05**
	(c)	Differentiate between cardiac muscle & visceral muscle.	**05**
Q.2	(a)	Describe the structure and composition of bone.	**06**
	(b)	Describe the structure and function of epithelial tissue.	**05**
	(c)	Describe the development of bone & explain how bone growth is regulated.	**05**
Q.3	(a)	Describe the structure and functions of a typical synovial joint.	**06**
	(b)	Enumerate different types and possible movements at synovial joints.	**05**
	(c)	Describe in brief – Neuromuscular junction.	**05**
Q.4	(a)	Explain the physiology of muscle contraction.	**06**
	(b)	Explain the mechanism of gastric secretion.	**05**
	(c)	Discuss the functions of stomach.	**05**
Q.5	(a)	Explain the process of erythropoesis and role of erythropoietin.	**06**
	(b)	Describe location, structure and functions of spleen.	**05**
	(c)	Define Autocoids and explain the role of histamine allergy.	**05**
Q. 6	(a)	Explain the process of blood coagulation.	**06**
	(b)	Explain the role of neutrophils in process of phagocytosis.	**05**
	(c)	Define the following terms, i) Polycythemia. ii) Rheumatoid arthritis. iii) Erythroblastosis foetalis. iv) Peptic ulcer. v) Dysphagia.	**05**
Q.7	(a)	Write in brief about reticulo-endothelial system.	**06**
	(b)	Explain the various physiological actions of serotonin.	**05**
	(c)	How haemoglobin is synthesized in body.	**05**

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