

GUJARAT TECHNOLOGICAL UNIVERSITY**B.PHARM- SEM-I-EXAMINATION – JUNE 2012****Subject code: 210001****Date: 23/06/2012****Subject Name: Anatomy Physiology and Health Education****Time: 10:30 am – 01:30 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) Explain the physiology of muscle contraction with suitable diagram. **06**
 (b) Draw a detailed structure of Digestive system of human body. **05**
 (c) Write a detailed note on mitochondria. **05**
- Q.2** (a) Differentiate: **06**
 1. Connective and Epithelial tissues.
 2. Active transport and Passive transport
 (b) What is blood? Enumerate various components and functions of blood. **05**
 (c) Explain in detail the mechanism of blood clotting. **05**
- Q.3** (a) Classify and discuss in details various joints of the body. **06**
 (b) What is immunity? Differentiate active and passive immunity. **05**
 (c) Write a short note on spleen. **05**
- Q.4** (a) Define following terms: **06**
 1. Rheumatoid arthritis 2. Peptic ulcer 3. Anemia 4. Phagocytosis
 (b) Draw a detailed diagram of cell. **05**
 (c) What is local hormone? Describe role of histamine with special reference to its role in inflammation and allergy. **05**
- Q.5** (a) Write a short note on any two: **06**
 1. Phases of gastric acid secretion
 2. 5-HT
 3. PAF
 (b) Explain in short the structure and function of skeleton. **05**
 (c) Explain various functions of liver with the diseases occurring to the same. **05**
- Q.6** (a) Explain the functions of: **06**
 1. Lymph 2. Gall bladder 3. Ribosomes
 (b) What is blood group? Classify blood groups. **05**
 (c) Write a short note on Reticulo-Endothelial System. **05**
- Q.7** (a) **06**
 Explain physiology of digestion in detail.
 (b) Write a short note on pancreas. **05**
 (c) **05**
 Classify WBCs and discuss functions of each type.
