

Seat No.: \_\_\_\_\_

Enrolment No. \_\_\_\_\_

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**B. Pharmacy Sem - 1<sup>st</sup> Regular / Remedial Examination January, 2011**

**Subject code: 210001**

**Subject Name: Anatomy Physiology & Health Education**

**Date: 03 /01 /2011**

**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.**

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|-------------|---|-----------|
| <b>Q.1</b>  | (a) Enumerate components of blood. Describe erythropoiesis.   | <b>06</b> |
|             | (b) Differentiate (i) Cardiac muscles and Skeletal muscles (ii) Active and Passive transport processes. | <b>05</b> |
|             | (c) Write a short note on Lymph.  | <b>05</b> |
| <b>Q.2</b>  | (a) Draw labeled diagram of digestive system and enumerate functions of each of the labeled parts.      | <b>06</b> |
|             | (b) Describe role of leukotrienes in inflammation.  | <b>05</b> |
|             | (c) Write a brief note on blood groups and explain hemolytic disease of newborn.                        | <b>05</b> |
| <b>Q.3</b>  | (a) Differentiate Epithelial tissues and Connective tissues. Describe in detail the connective tissues. | <b>06</b> |
|             | (b) Describe vertebra and bones of lower limbs.   | <b>05</b> |
|             | (c) Write a short note on types of joints.  | <b>05</b> |
| <b>Q.4</b>  | (a) How does digestion take place in intestine?   | <b>06</b> |
|             | (b) Describe synthesis and functions of serotonin.  | <b>05</b> |
|             | (c) Write a short note on Cell cycle.   | <b>05</b> |
| <b>Q.5</b>  | (a) Explain physiology of muscle contraction with special reference to role of acetylcholine.           | <b>06</b> |
|             | (b) Describe normal count of blood cells, ESR and its diagnostic importance.                            | <b>05</b> |
|             | (c) Write a short note on Liver.  | <b>05</b> |
| <b>Q. 6</b> | (a) Explain in detail the blood clotting process.   | <b>06</b> |
|             | (b) Describe role of histamine and PAF in inflammation.   | <b>05</b> |
|             | (c) Explain: Mitochondria are energy house of cell whereas lysosomes are suicidal bags.                 | <b>05</b> |
| <b>Q.7</b>  | (a) Draw labeled diagram of cell and explain golgi apparatus.   | <b>06</b> |
|             | (b) Write a short note on Nervous tissues.  | <b>05</b> |
|             | (c) Explain the terms: Hemophilia, Hepatitis, Crenation, Pancytopenia, Steatorrhea                      | <b>05</b> |

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