

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

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

# **GUJARAT TECHNOLOGICAL UNIVERSITY**

**B. Pharm. Semester - I<sup>ST</sup> Examination –July- 2011**

**Subject code: 210001**

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

**Date: 04/07/2011**

**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.**

- |             |     |   |           |
|-------------|-----|---|-----------|
| <b>Q.1</b>  | (a) | Explain structure and function of cell membrane.            | <b>06</b> |
|             | (b) | Detail on epithelial tissues.                               | <b>06</b> |
|             | (c) | Enumerate bones of skull.                                   | <b>04</b> |
| <b>Q.2</b>  | (a) | Write a note on cell cycle.                                 | <b>06</b> |
|             | (b) | Explain protein synthesis by cell organelle.                | <b>06</b> |
|             | (c) | Write a note on blood groups                                | <b>04</b> |
| <b>Q.3</b>  | (a) | Classify joints. Write a note on synovial joints.           | <b>06</b> |
|             | (b) | Define clotting of blood. Explain its mechanism.            | <b>06</b> |
|             | (c) | Differentiate between cardiac and skeletal muscles.         | <b>04</b> |
| <b>Q.4</b>  | (a) | Explain cardiac cycle.                                      | <b>06</b> |
|             | (b) | Describe composition and function of lymph.                 | <b>06</b> |
|             | (c) | Draw a labeled diagram showing internal structure of heart. | <b>04</b> |
| <b>Q.5</b>  | (a) | Enlist types of immunity. Explain acquired immunity.        | <b>06</b> |
|             | (b) | Write a note reticulo-endothelial system.                   | <b>06</b> |
|             | (c) | Draw a labeled diagram of digestive system.                 | <b>04</b> |
| <b>Q. 6</b> | (a) | Describe fat digestion in different parts of G. I. Tract.   | <b>06</b> |
|             | (b) | Discuss functions of liver.                                 | <b>06</b> |
|             | (c) | Explain structure and function of hemoglobin.               | <b>04</b> |
| <b>Q. 7</b> | (a) | Discuss composition and function of gastric juice.          | <b>06</b> |
|             | (b) | Classify WBCs. Write physiology of them.                    | <b>06</b> |
|             | (c) | What is blood pressure? Discuss factors affecting it.       | <b>04</b> |

\*\*\*\*\*