

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

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

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**B. Pharm. – SEMESTER – I • EXAMINATION – WINTER • 2015**

**Subject Code: 210001**

**Date: 05-01-2016**

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

**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) Enlist different cell organelles and draw clean and neat diagram of cell.         | <b>06</b> |
|             | (b) Write mechanics and mechanism of gastric acid secretion.                          | <b>05</b> |
|             | (c) Enumerate functions of blood and write composition of blood.                      | <b>05</b> |
| <b>Q.2</b>  | (a) Classify muscles and differentiate between skeletal and smooth muscles.           | <b>06</b> |
|             | (b) Give classification of immunity and write a short note on antibodies.             | <b>05</b> |
|             | (c) Write anatomy and physiology of spleen.   | <b>05</b> |
| <b>Q.3</b>  | (a) Explain different physiological roles of liver.                                   | <b>06</b> |
|             | (b) Define terms: peptic ulcer, hemorrhage, hepatitis, AIDS and edema.                | <b>05</b> |
|             | (c) Explain mechanism for generation of action potential.                             | <b>05</b> |
| <b>Q.4</b>  | (a) Differentiate between active transport and passive transport.                     | <b>06</b> |
|             | (b) Explain different types of joints.  | <b>05</b> |
|             | (c) Write a short note on protein synthesis.  | <b>05</b> |
| <b>Q.5</b>  | (a) Give detailed account on source, secretion, formation and functions of serotonin. | <b>06</b> |
|             | (b) Write a short note on formation, storage, secretion and functions of bile juice.  | <b>05</b> |
|             | (c) Explain bones of skull.   | <b>05</b> |
| <b>Q. 6</b> | (a) Explain step by step process of Erythropoiesis.                                   | <b>06</b> |
|             | (b) Write a short note on salivary glands.  | <b>05</b> |
|             | (c) Give detailed account on physiology of blood clotting.                            | <b>05</b> |
| <b>Q.7</b>  | (a) Give detailed account on epithelial tissue.                                       | <b>06</b> |
|             | (b) Explain pathway for arachidonic acid metabolism.                                  | <b>05</b> |
|             | (c) Write a short note on anemia.   | <b>05</b> |

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