

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

B. Pharm. – SEMESTER – I (OLD Syllabus) • EXAMINATION – SUMMER • 2015

Subject Code: 210007

Date: 01-06-2015

Subject Name: Human Anatomy Physiology and Health Education-I

Time: 02.30 pm - 05.30 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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|------------|---|-----------|
| Q.1 | (a) Define or explain the following terms- | 06 |
| | (i) Anatomy | |
| | (ii) Immunity | |
| | (iii) Starling's law | |
| | (iv) Anorexia | |
| | (v) Lymph | |
| | (vi) Angina Pectoris | |
| | (b) Explain the structure and functions of- | 05 |
| | (i) Mitochondria | |
| | (ii) Nucleus | |
| | (c) Describe in brief about blood groups and Rh factor. | 05 |
| Q.2 | (a) Explain the points of difference between the three types of muscular tissues. | 06 |
| | (b) Describe the bones of skull. | 05 |
| | (c) Give the composition and functions of gastric juice. | 05 |
| Q.3 | (a) With the help of a neat labeled diagram explain the internal structure of heart. | 06 |
| | (b) Describe the structure of RBC. Give its properties and functions. | 05 |
| | (c) Write a short note on – Synovial Joints. | 05 |
| Q.4 | (a) Draw a neat and labeled diagram of Neuromuscular Junction and explain the physiology of muscle contraction. | 06 |
| | (b) Give the composition and formation of Lymph and discuss its functions. | 05 |
| | (c) Write a short note on- Anemia. | 05 |
| Q.5 | (a) Explain cardiac cycle with the help of diagram. | 06 |
| | (b) Classify and describe different types of WBC. | 05 |
| | (c) Write a short note on liver. | 05 |

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| Q. 6 | (a) Define blood pressure and explain factors maintaining blood pressure. | 06 |
| | (b) Draw a neat labeled diagram of nervous tissue and describe it. | 05 |
| | (c) Explain digestion of proteins. | 05 |
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| Q.7 | (a) Give the general functions of blood. | 06 |
| | (b) Write a short note on- Acquired Immunity. | 05 |
| | (c) Explain the junctional tissues of heart. | 05 |
