

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
B.Ph SEM-I Examination- Jan.-2012

Subject code: 210001

Date: 02/01/2012

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.**

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|-------------|---|-----------|
| Q.1 | (a) What is cell cycle? Write a note on it. | 06 |
| | (b) Write a short note on liver. | 05 |
| | (c) Write composition and function of Lymph. | 05 |
| Q.2 | (a) Give function of following
(i) Golgi apparatus (ii) Platelets (iii) Pancreatic Juice | 06 |
| | (b) Discuss function of blood. | 05 |
| | (c) Classify WBCs. Discuss function of WBCs. | 05 |
| Q.3 | (a) Differentiate connective and epithelial tissues. Describe in detail about nervous tissues. | 06 |
| | (b) How does digestion take place in intestine? | 05 |
| | (c) Write a short note on muscular tissue. | 05 |
| Q.4 | (a) Explain in detail about blood clotting process. | 06 |
| | (b) Explain role of leukotrienes in inflammation. | 05 |
| | (c) Write a short note on types of joints. | 05 |
| Q.5 | (a) Draw labeled diagram of digestive system and enumerate function of each labeled parts. | 06 |
| | (b) Describe vertebra and bone of lower limbs. | 05 |
| | (c) Describe in brief—Neuromuscular junction. | 05 |
| Q. 6 | (a) Define and classify Allergy. Discuss features of various types of Allergy. | 06 |
| | (b) Discuss the functions of stomach. | 05 |
| | (c) Write in brief about spleen. | 05 |
| Q.7 | (a) Explain the process of erythropoiesis and role erythropoietin. | 06 |
| | (b) Write biosynthesis of serotonin(5-HT) and action of 5-HT on blood vessels. | 05 |
| | (c) Difference between (i) Active transport and Passive transport
(ii) Skeletal muscle and Cardiac muscle. | 05 |
