

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

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