

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
Diploma Pharmacy (First Year) - Examination –May/June- 2011
Subject code: 410005

Subject Name: Human Anatomy and Physiology

Date: 31/05/2011

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) Draw and label diagram of Nephron. Discuss the physiology of urine formation. | 06 |
| | (b) Classify tissues. Write a note on Nervous Tissue. | 05 |
| | (c) Write composition and functions of lymph. | 05 |
| Q.2 | (a) Draw and label diagram of cross section of eyeball. Write a note on Physiology of Vision. | 06 |
| | (b) Discuss salivary glands and its functions. | 05 |
| | (c) Give Physiological actions of Glucocorticoids. | 05 |
| Q.3 | (a) Describe composition and functions of blood. | 06 |
| | (b) Draw and label diagram of Male Reproductive System and write functions of Testosterone. | 05 |
| | (c) Describe methods for measurement of Blood Pressure. | 05 |
| Q.4 | (a) Explain digestion of food in Stomach and Intestine. | 06 |
| | (b) Write functions of Hypothalamus and Medulla Oblongata. | 05 |
| | (c) Classify types of joints and write a note on synovial joint. | 05 |
| Q.5 | (a) Enlist various clotting factors and describe in detail mechanism of clotting. | 06 |
| | (b) Differentiate the following. | 05 |
| | (1) Sympathetic and Parasympathetic Nervous System | |
| | (2) Skeletal Muscle and Cardiac Muscle | |
| | (c) Write a note on ECG and its significance. | 05 |
| Q. 6 | (a) Explain Physiology of Muscle Contraction. | 06 |
| | (b) Write a short note on Cardiac Cycle. | 05 |
| | (c) Describe synthesis, storage, transport and functions of Thyroid Hormones. | 05 |
| Q.7 | (a) Discuss the following terms. | 06 |
| | (1) Tidal Volume (2) Asthma (3) Calculi | |
| | (4) Peptic Ulcer (5) Oedema (6) Anaemia | |
| | (b) Draw and label diagram of a Cell and write a note on Mitochondria. | 05 |
| | (c) Give structure and functions of Skin. | 05 |
