

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.

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. (1) Sympathetic and Parasympathetic Nervous System (2) Skeletal Muscle and Cardiac Muscle	05
	(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. (1) Tidal Volume      (2) Asthma      (3) Calculi (4) Peptic Ulcer      (5) Oedema      (6) Anaemia	06
	(b)	Draw and label diagram of a Cell and write a note on Mitochondria.	05
	(c)	Give structure and functions of Skin.	05

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