

GUJARAT TECHNOLOGICAL UNIVERSITY
Pharm D – 1st Year • EXAMINATION – SUMMER • 2015

Subject Code: 818801**Date: 19-05-2015****Subject Name: Human Anatomy and Physiology****Time: 10.30 am – 01.30 pm****Total Marks: 70****Instructions:**

1. Attempt any five questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

Q.1	(a) Explain physiology of hearing	06
	(b) Write a note on respiratory volumes and capacities	04
	(c) Describe spermatogenesis process	04
Q.2	(a) Describe various waves of ECG	06
	(b) Explain the difference between Juxtamedullary and Cortical nephrons	04
	(c) Write a note on hypothalamus	04
Q.3	(a) Explain formation, circulation and reabsorption of cerebrospinal fluid.	06
	(b) Describe physiological changes that occur during exercise.	04
	(c) Write a brief note on control of blood pressure and blood flow.	04
Q.4	(a) Classify joints and write about types of movements of joints	06
	(b) Explain terms: i) Gastroesophageal reflux disease ii) Hypoxia iii) Lymphadenopathy iv) Homeostasis	04
	(c) Write a note on Mitochondria	04
Q.5	(a) Explain the process of thyroid hormones production.	06
	(b) Draw a neat and labelled diagram of heart	04
	(c) Write a note on cranial nerves	04
Q. 6	(a) Describe various phases of digestion	06
	(b) Describe epithelial tissue	04
	(c) Draw a detailed diagram of male reproductive system	04
Q.7	(a) Write a note on menstruation describing various events that occur in uterus and ovaries.	06
	(b) Write a note on erythropoiesis	04
	(c) Explain the neuromuscular junction	04
