

Seat No.: _____

Enrolment No.: _____

GUJARAT TECHNOLOGICAL UNIVERSITY
DIPLOMA PHARMACY– SEMESTER – I • EXAMINATION – SUMMER 16

Subject Code: 410005

Date: 20.05.2016

Subject Name: Human Anatomy and Physiology

Time: 10:30 AM TO 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 & label diagram of nephron. Discuss the physiology of urine formation. **06**
(b) Define & classify tissue. Describe in detail connective tissue. **05**
(c) Write composition of blood. Describe the functions of RBC. **05**
- Q.2** (a) Draw & label diagram of male reproductive system & write the functions of testes **06**
(b) Define blood pressure .Write normal value & describe methods of its measurement. **05**
(c) Define cardiac output. Describe various factors affecting it. **05**
- Q.3** (a) Define cardiac cycle .Describe the events which occurs during ventricular systole. **06**
(b) Draw & label the diagram of stomach .Describe the functions in short. **05**
(c) Describe the functions of liver in short. **05**
- Q.4** (a) Name the endocrine secretion of pancreas .Describe the functions of insulin **06**
(b) Draw & label the diagram of large intestine or colon. Describe its functions. **05**
(c) Define puberty .Describe the secondary sexual character in male. **05**
- Q.5** (a) Draw & label the diagram of lung. Describe its functions. **06**
(b) Define respirations. Describe the difference between internal & external respiration. **05**
(c) Name the secretion of anterior pituitary. Describe the functions of growth hormone. **05**
- Q. 6** (a) Draw & label the diagram of eyeball. Describe the functions of retina. **06**
(b) Draw & label the diagram of transverse sections of spinal cord. Describe its functions. **05**
(c) Define reflex action. Write its importance **05**
- Q.7** (a) Differentiate between artery & vein. **06**
(b) Define muscle. Classify muscle tissue. Describe the property of voluntary muscle. **05**
(c) Define neuron & nerve fibre . Describe the difference between afferent & efferent nerve. **05**
