

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

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|-------------|---|-----------|
| 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 |
