

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
DIPLOMA PHARMACY - SEMESTER-I • EXAMINATION-SUMMER • 2014

Subject Code: 410005

Date: 30-05-2014

Subject Name: Human Anatomy and Physiology

Time: 10:30 am - 01:30 pm

Total Marks: 70

Instructions:

- 1. Attempt all questions.**
- 2. Make suitable assumptions wherever necessary.**
- 3. Figures to the right indicate full marks.**

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|-------------|------------|--|-----------|
| Q.1 | (a) | Enlist different parts of Brain. Write composition, locations and functions of Cerebrospinal fluid | 06 |
| | (b) | Compare the physiological effects of sympathetic and parasympathetic nervous system on different parts of the body | 06 |
| | (c) | Explain in brief reflex action of spinal cord | 04 |
| Q.2 | (a) | Enlist hormones of anterior pituitary gland. Explain physiological effect of each hormone | 06 |
| | (b) | Draw labeled diagram of human respiratory system. Explain mechanism of respiration. | 06 |
| | (c) | Explain the disorders (Any two) i) Anemia ii) Goitre iii) Asthma | 04 |
| Q.3 | (a) | Define blood coagulation. Explain its process. | 06 |
| | (b) | Classify types of WBC. How will you differentiate them? | 06 |
| | (c) | Write functions of blood | 04 |
| Q.4 | (a) | Explain digestion of food in duodenum | 06 |
| | (b) | Discuss in detail functions of liver | 06 |
| | (c) | Explain the role of hormones in digestion | 04 |
| Q.5 | (a) | Describe physiology of menstrual cycle | 06 |
| | (b) | Write a note on lymphatic system and its components | 06 |
| | (c) | Write a note on male accessory sex organs | 04 |
| Q. 6 | (a) | Describe in detail physiology of urine formation | 06 |
| | (b) | Describe internal structure of heart with labeled diagram | 06 |
| | (c) | Explain flow of blood through heart chambers | 04 |
| Q.7 | (a) | Describe structure of sarcomere with labeled diagram | 06 |
| | (b) | Enlist different organelles of human cell. Describe any two of them. | 06 |
| | (c) | Write short note on neuromuscular junction | 04 |
