

GUJARAT TECHNOLOGICAL UNIVERSITY
B.Ph. / M. Ph. / D.Ph. - SEMESTER-I • EXAMINATION – WINTER-2016

Subject Code: 410005**Date: 26/10/2016****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 the labeled diagram of neuron and write a short note on nervous tissue. | 06 |
| | (b) Define the cell and tissue. Draw a labeled diagram of cell. | 05 |
| | (c) Enlist names of bones of human skeleton and describe briefly about synovial joint. | 05 |
| Q.2 | (a) Define the menstruation cycle and describe the process of menstruation cycle. | 06 |
| | (b) Write the composition, formation and functions of lymph. | 05 |
| | (c) Draw a labeled diagram of human eye ball. | 05 |
| Q.3 | (a) Define the cardiac cycle and explain the process of cardiac cycle. | 06 |
| | (b) Define the reflex action and explain the process of reflex actions. | 05 |
| | (c) Write a short note on cerebellum. | 05 |
| Q.4 | (a) Draw a labeled diagram of stomach and write the functions of gastric juice. | 06 |
| | (b) Describe the physiology of liver. | 05 |
| | (c) Write the composition of blood and write a short note on anemia. | 05 |
| Q.5 | (a) Define the blood clotting and describe the clotting process of blood. | 06 |
| | (b) Describe physiology of muscle contraction. | 05 |
| | (c) Explain the process of respiration. | 05 |
| Q.6 | (a) Describe the physiology of urine formation. | 06 |
| | (b) Define the cardiac output, ECG and Describe the junctional tissues of heart. | 05 |
| | (c) Describe the physiology of hearing. | 05 |
| Q.7 | (a) Enlist the name of hormones secrete from the sspituitary gland and describe the functions of hormones of anterior pituitary gland. | 06 |
| | (b) Write a short note on testes and its hormonal secretion. | 05 |
| | (c) Write the different types of WBC and its functions. | 05 |
