

GUJARAT TECHNOLOGICAL UNIVERSITY
Pharm D – 1st Year • EXAMINATION – WINTER - 2022

Subject Code: 818801**Date: 24/01/2023****Subject Name: Human Anatomy and Physiology****Time: 10:30AM TO 01:30PM****Total Marks: 70****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) Explain regulation and physiology of respiration. | 06 |
| | (b) Write a note on Mitochondria. | 04 |
| | (c) Explain physiology of urine formation. | 04 |
| Q.2 | (a) Classify joints and explain in detail. | 06 |
| | (b) Write comparison of sympathetic and parasympathetic system. | 04 |
| | (c) Write a note on menstruation. | 04 |
| Q.3 | (a) Explain the blood coagulation process. | 06 |
| | (b) Write composition, function and circulation of Lymph. | 04 |
| | (c) Explain in brief about limbic system and reticular formation. | 04 |
| Q.4 | (a) Discuss in detail structure and Function of skin. | 06 |
| | (b) Explain the physiology of Pancreas. | 04 |
| | (c) Write a note on Nervous tissue. | 04 |
| Q.5 | (a) Explain adrenal gland and give detail about hormone secreted from it. | 06 |
| | (b) Write a note on Salivary Glands. | 04 |
| | (c) Explain cardiac cycle. | 04 |
| Q. 6 | (a) Write a note on Internal Ear. Explain physiology of hearing. | 06 |
| | (b) Draw a detailed diagram of male reproductive system. | 04 |
| | (c) Describe physiological changes that occur during exercise. | 04 |
| Q.7 | (a) Explain in brief: i) GERD ii) Hypoxia iii) Lymphadenopathy iv) Atherosclerosis
v) Myasthenia gravis vi) Arthritis | 06 |
| | (b) Write a note on Thyroid gland. | 04 |
| | (c) Explain in detail physiology of muscle contraction. | 04 |
