

Seat No.: \_\_\_\_\_

Enrolment No. \_\_\_\_\_

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**Pharm D – 1<sup>st</sup> Year • EXAMINATION – SUMMER - 2023**

**Subject Code: 818801**

**Date:03/08/2023**

**Subject Name: Human Anatomy & 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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|-------------|---|-----------|
| <b>Q.1</b>  | (a) Explain the blood coagulation process.  | <b>06</b> |
|             | (b) Classify tissue. Write in detail about nervous tissue.  | <b>04</b> |
|             | (c) Write a short note on physiology of urine formation.  | <b>04</b> |
| <b>Q.2</b>  | (a) Write a note Cardiac cycle.   | <b>06</b> |
|             | (b) Classify joints and explain synovial joints   | <b>04</b> |
|             | (c) Explain physiology of liver.  | <b>04</b> |
| <b>Q.3</b>  | (a) Write a note on erythropoiesis.   | <b>06</b> |
|             | (b) Explain physiology and functional areas of cerebrum.  | <b>04</b> |
|             | (c) Write a short note on physiology of menstrual cycle.  | <b>04</b> |
| <b>Q.4</b>  | (a) Draw clean and neat labeled diagram of eye. Explain physiology of vision.                         | <b>06</b> |
|             | (b) Describe Physiology of Hearing and equilibrium.   | <b>04</b> |
|             | (c) Describe physiological changes occur during exercise.   | <b>04</b> |
| <b>Q.5</b>  | (a) Write a short note on internal respiration.   | <b>06</b> |
|             | (b) Explain mechanism of gastric acid secretion.  | <b>04</b> |
|             | (c) Draw neat and labeled diagram of human cell.  | <b>04</b> |
| <b>Q. 6</b> | (a) Discuss the synthesis, control & release of Thyroid Hormones.                                     | <b>06</b> |
|             | (b) Discuss the role of various hormones secreted from anterior pituitary gland.                      | <b>04</b> |
|             | (c) Explain anatomy and physiology of spleen.   | <b>04</b> |
| <b>Q.7</b>  | (a) Draw neat & clean labeled diagram of male reproductive system. Discuss functions of testosterone. | <b>06</b> |
|             | (b) Explain physiology of muscle contraction.   | <b>04</b> |
|             | (c) State the difference between sympathetic and parasympathetic nervous system.                      | <b>04</b> |

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