

GUJARAT TECHNOLOGICAL UNIVERSITY
DIPLOMA PHARMACY YEAR- 1 • EXAMINATION – WINTER - 2023

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Subject Code: DP104TPVisit: <https://pharmacyindia.co.in>**Date: 14/12/2023****Subject Name: Human Anatomy and Physiology****Time: 02:30 PM TO 05:30 PM****Total Marks: 80****Instructions:**

1. Question -1 is compulsory to attempt.
2. Attempt any 04 questions from Question 2 to 7.
3. Make suitable assumptions wherever necessary.
4. Figures to the right indicate full marks.

- Q.1** Answer the following questions. (Attempt Any 16) (1 mark each) **16**
- 1) Explain term 'Rheumatoid arthritis.
 - 2) Which is a sense organ for smell in nose?
 - 3) Give name of organ concerned with 'Arousal and alert reactions' in brain.
 - 4) Enlist steps involved in mechanism of clotting.
 - 5) Define pulmonary circulation.
 - 6) Which blood cell is known as non-nucleated cell?
 - 7) Explain term 'Systolic blood pressure.'
 - 8) Write name of phases of gastric secretion.
 - 9) What is full form of ECG?
 - 10) Which heart chambers push blood in circulatory system?
 - 11) Give name of various parts of gastrointestinal tract.
 - 12) Which endocrine gland is known as suprarenal gland?
 - 13) What are functions of hormone progesterone?
 - 14) Define 'Tidal volume'.
 - 15) Give name of facial bones.
 - 16) Explain meaning of 'Myasthenia gravis'.
 - 17) Write name of hormones regulating calcium ion concentration in blood.
 - 18) What is the full form of CSF?
 - 19) Write the names of respiratory muscles.
 - 20) Justify the comment: Why lysosome is known as suicidal bag?
- Q.2** (a) Explain the physiology of skeletal muscle contraction. **06**
 (b) Discuss functions of cerebrum in detail. **05**
 (c) Describe various phases of menstrual cycle. **05**
- Q.3** (a) Enlist endocrine glands with respective hormone secreted from them. Discuss their role in brief. **06**
 (b) Write a note on physiological actions of glucocorticoids. **05**
 (c) Draw a labeled diagram of cell. Discuss organelle known as powerhouse of cell. **05**
- Q.4** (a) Describe the physiology of urine formation. **06**
 (b) Write name and functions of cranial nerves. **05**
 (c) Define and classify tissue. **05**
- Q.5** (a) Write a note on composition and functions of blood. **06**
 (b) Explain the physiology of hearing with suitable diagram. **05**
 (c) Describe structure and functions of spleen. **05**

- Q. 6** (a) Give a note on blood group and its clinical significance. **06**
(b) Draw a well labeled diagram of eyeball. **05**
(c) Describe synovial joint with examples. **05**

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- Q.7** (a) Explain cardiac cycle in detail. **06**
(b) Draw a well-labeled diagram of the human respiratory system. **05**
(c) Write a note on reflex action of spinal cord. **05**



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