

(This paper consists of 2 pages)

Date: 28-11-2025

D. Pharmacy (Part-I)

3704

D. Pharmacy Part-I (New Scheme) (Main) Examination November 2025

Human Anatomy and Physiology

Paper - IV

Time: Three Hours

Maximum Marks: 80

Instruction To The Candidate :

1. Do not write anything on the question paper except roll number, otherwise it shall be deemed an act of unfair means and action shall be taken as per rules.
2. Question paper contains three parts (I-III). Each part is compulsory. Read instructions carefully for each part before starting.
3. Attempt parts of each question altogether. Write question number of each part along with

PART - I

Attempt ANY SIX of the following long questions:

(6×5 = 30 marks)

- Q1. Write a short note on the structure of the lungs.
- Q2. Explain the role of the liver in metabolism.
- Q3. What are hormones? Give examples of two important hormones
- Q4. Define and differentiate between voluntary and involuntary muscles.
- Q5. Write a short note on the structure and function of small intestine.
- Q6. Explain the function of the pituitary gland in the endocrine system.
- Q7. What is the role of the cornea in vision? ?

(10×3 = 30 marks)

PART-II

(Attempt ALL of the following questions in short answer:)

Q.8—Answer any SIX

- a) Differentiate between arteries and veins.
- b) Write a note on the structure of the skin.
- c) Explain the role of the pancreas in digestion.
- d) Describe the different types of joints found in the human body.
- e) What are platelets? Explain their function in blood clotting.
- f) Define and differentiate between axial and appendicular skeleton.
- g) Write a short note on the structure and function of the large intestine.

Q.9—Answer all questions

(4×3 = 12 marks)

- a) Briefly describe the function of the adrenal cortex.
- b) What is the function of the lymphatic system in the human body?
- c) Explain the process of filtration in the kidneys.
- d) Describe the different types of muscle tissue and their functions in the human body.

(20×1 = 20 marks)

PART-III

(Attempt ALL of the following questions objective questions)

Q.10 — Fill in the blanks OR Answer in one word OR one sentence:

- a) What is cardiac output?
- b) What is the function of bronchi in the respiratory system?
- c) What is the role of white blood cells in the immune system?
- d) Name the types of muscles found in the human body.
- e) Define endocytosis.
- f) What is the role of the liver in digestion?
- g) Define the term homeostasis.

Q.11 — Fill in the blanks OR Answer in one word OR one sentence:

- a) Ribosomes are produced by ___ organelle.
- b) Major site of lipid synthesis _____.
- c) Cell drink process is known as _____.
- d) Parotid gland release its secretion via _____ duct.
- e) Weight of human liver is about _____ gram.
- f) Mucosa of Urinary bladder is lined with _____ epithelium.
- g) What is the name of largest tarsal bone _____.

Q.12 — Fill in the blanks OR Answer in one word OR one sentence:

- a) The largest organ in the human body is _____.
- b) The _____ system is responsible for breaking down food into nutrients that can be absorbed by the body.
- c) The heart is a muscular organ that pumps _____ throughout the body.
- d) Define the term synapse.
- e) What is the role of bile in digestion?
- f) What is the function of red blood cells?