



### Sessional II (Odd) Semester Examination, October 2025

Roll no.....

Name of the Course and semester: **B. Pharm (I Semester)**

Name of the Paper: **Human Anatomy and Physiology I**

Paper Code: **BP101T**

Time: **1.5-hour**

Maximum Marks: **30**

**Note:**

- (i) This question paper contains three sections.
- (ii) All the questions are compulsory.

#### Section-A

- Q1. Multiple Choice Questions – Attempt all questions (10 X 1 = 10 Marks)**
1. Which vitamin deficiency causes anaemia? (CO3)
    - a) Vitamin B12
    - b) Vitamin B6
    - c) Vitamin K
    - d) All of the above
  2. Which plasma protein is mainly responsible for maintaining osmotic pressure? (CO3)
    - a) Globulin
    - b) Fibrinogen
    - c) Albumin
    - d) Haemoglobin
  3. Haemolytic disease of the newborn occurs when: (CO3)
    - a) Father is Rh– and mother is Rh+
    - b) Both are Rh–
    - c) Mother is Rh– and baby is Rh+
    - d) Both are Rh+
  4. Which organ is known as the graveyard of RBCs? (CO3)
    - a) Thymus gland
    - b) Spleen
    - c) Malt
    - d) Bone marrow
  5. Function of reticuloendothelial cells is: (CO3)
    - a) Hormone secretion
    - b) Phagocytosis of debris and pathogens
    - c) Transport of gases
    - d) Maintenance of blood pressure
  6. The smallest lymphatic vessels are called: (CO3)
    - a) Lymph ducts
    - b) Lymph capillaries
    - c) Lymph nodes
    - d) Lymph trunks
  7. Which WBCs play a key role in allergy? (CO3)
    - a) Eosinophils
    - b) Basophils
    - c) Neutrophils
    - d) Monocytes

## Section B

**Q. 2 Short Questions: (Attempt any two questions) (2X 5 = 10 Marks)**

1. Classify and describe different types of anaemia with causes. (CO3)
  2. Explain the structure and functions of lymphatic system. (CO3)
  3. Define hemopoiesis and explain the process of erythropoiesis. (CO3)

### Section C

**Q. 3 Long questions: (Attempt any one question) (1X10 = 10 Marks)**

1. Explain the detailed mechanism of coagulation and factors involved in it. (CO3)
  2. Elaborate the components and functions of blood. (CO3)