



**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

8. The total volume of blood in an average adult is about: (CO3)  
a) 2 litres c) 3 litres  
b) 5 litres d) 8 litres
9. The main function of lymphocytes is: (CO3)  
a) Phagocytosis c) Oxygen transport  
b) Antibody production d) Clot formation
10. A person with blood group O has: (CO3)  
a) Antigen A c) Antigen B  
b) Both antigens A and B d) No antigens

### 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)