

**First Semester Examination for the Degree
of Bachelor of Pharmacy**

HUMAN ANATOMY AND PHYSIOLOGY

1 – T – 3

Time : Three Hours]

[Max. Marks : 80

- N. B. : (1) Question No. 1 is Compulsory.
(2) Solve any Four Questions from the remaining.
(3) Draw neat labeled diagram wherever necessary.

1. Attempt any **Five** :—

- (i) Write about various body cavities and their membrane.
- (ii) Explain structure and functions of Golgi complex.
- (iii) Write functions of plasma proteins.
- (iv) Define vital capacity. How it is measured ?
- (v) Write functions of lymph.
- (vi) Explain normal ECG.
- (vii) Write types and functions of WBC. 20

2. Describe in detail mechanisms for transport of substances across cell membrane. 15

3. (a) Classify tissues of human body. Describe subtypes and characteristics of connective tissues. 10

(b) Write a note on nervous tissue. 5

4. (a) Describe genesis and fate of RBCs. 10

(b) Write in brief about different types of anemia. 5

5. (a) Explain anatomy of heart ? 5

(b) Describe action potential and contraction of contractile fibre in heart. 10

6. (a) Draw a well labelled diagram showing organs of respiratory system.

(b) Explain exchange of respiratory gases in external and internal respiration. 10

7. Write short note on any **Two** :—

(a) Coagulation of blood.

(b) Pulmonary blood circulation.

(c) Spleen. 15