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B. Pharm. First Semester (C.B.S.) Examination HUMAN ANATOMY AND PHYSIOLOGY—I

Paper-3 (1 T 3)

Time : Three Hours] [Full Marks : 80

N.B. :— (1) Question No. 1 is compulsory.

- (2) Solve any FOUR questions from remaining.
- (3) Draw neat labeled diagram wherever necessary.

Solve any FIVE :—

- (a) Describe structure and functions of plasma membrane.
- (b) Explain structure and types of musculas tissue.
- (c) Give composition and function of lymph.
- (d) Discuss role of plasma proteins.
- (e) Explain the terms tidal volume, vital capacity and describe the role of diaphragm.
- (f) Discuss various events in ECG.
- (g) Describe various body cavities. 4×5=20
- Classify epithelial tissue. Explain the characteristics, location and function with suitable diagrams. 15
- (a) Give composition and functions of blood.
 - (b) Explain the process of RBC formation and destruction in detail and define different types of anaemias.
- (a) Define Blood Pressure. Discuss the factors affecting blood pressure and various mechanisms regulating it.
 - (b) Draw a well labelled diagram showing internal anatomy of heart.
- 5. (a) Describe the phenomenon of exchange of respiratory gases and discuss factors affecting it. 10
 - (b) Name the respiratory organs and explain Act of Respiration. 5
- (a) Describe the cell cycle with the help of suitable diagram.
 - (b) Explain the mechanism of generation of membrane potential. Comment on importance of membrane potential in cell physiology.
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- (a) Explain structure and function of spleen.
 - (b) Name the clotting factors and explain the mechanism of Blood Coagulation.

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