

Code: 15R00105

**R15**

B.Pharm I Year I Semester (R15) Regular &amp; Supplementary Examinations January 2018

**HUMAN ANATOMY & PHYSIOLOGY – I**

Time: 3 hours

Max. Marks: 70

**PART – A**  
(Compulsory Question)

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1 Answer the following: (10 X 02 = 20 Marks)

- (a) Describe the function of Golgi apparatus.
- (b) Write a note on neuroglia of CNS.
- (c) Write the functions of Agranulocytes.
- (d) Write ABO system of blood grouping.
- (e) Define structure of stomach.
- (f) Write the phases of gastric juice secretion.
- (g) Write a short note on ECG waves.
- (h) Write a note on valves of heart.
- (i) Define formation of lymph.
- (j) Write a note on hypothalamus.

**PART – B**

(Answer all five units, 5 X 10 = 50 Marks)

**UNIT – I**

2 Define tissues. Write a short note on: (i) Muscular tissue. (ii) Loose connective tissues.

**OR**

3 Explain transport of substances across cell membrane.

**UNIT – II**

4 Write short notes on the following:

- (a) White blood cells.
- (b) RBC.

**OR**

5 Describe the mechanism and regulation of respiration.

**UNIT – III**

6 Write short notes on the following:

- (a) Menstrual cycle.
- (b) Spermatogenesis.

**OR**

7 Describe the digestion and absorption of carbohydrates.

**UNIT – IV**

8 Define blood pressure. Explain regulation of blood pressure.

**OR**

9 Describe the anatomy of heart.

**UNIT – V**

10 Write short notes on the following:

- (a) Action potential.
- (b) Synaptic transmission.

**OR**

11 Describe the functional areas of cerebrum.