

Subject Code: B13104/R13

I B. Pharmacy I Semester Regular/Supplementary Examinations Feb. - 2015

HUMAN ANATOMY & PHYSIOLOGY-I

Time: 3 hours

Max. Marks: 70

Question Paper Consists of **Part-A** and **Part-B**
Answering the question in **Part-A** is Compulsory,
Three Questions should be answered from **Part-B**

PART-A

- 1.(i) Classify leukocytes and enlist their functions.
- (ii) Write a note on respiratory volumes.
- (iii) Classify various types of connective tissues with examples.
- (iv) Draw a neat labeled diagram of heart.
- (v) Discuss the importance of water and electrolyte balance.
- (vi) Write a note on composition and functions of bile.

[4+3+4+4+4+3]

PART -B

2. (a) Write the mechanism of contraction of skeletal muscle.
- (b) Discuss the general features of synovial joints. Enumerate the nature and functions of synovial fluid.

[8+8]

3. (a) Write a note on blood clotting mechanism.
- (b) Describe the erythropoiesis and mention the factors regulating erythropoiesis.

[6+10]

4. Write a short note on following.
 - (a) Congestive heart failure
 - (b) Electrocardiogram
 - (c) Blood pressure regulation
 - (d) T and B lymphocytes.



[2+5+5+4]

5. (a) Explain the mechanism of respiration.
- (b) Write a note on the regulation of respiration.

[8+8]

6. (a) Explain digestion of foods in small intestine.
- (b) Describe the structure and functions of liver.

[8+8]

7. (a) Explain in detail about Renin –Angiotensin- Aldosterone (RAA) pathway.
- (b) Describe the histology of kidney with a neat labeled diagram.

[8+8]