

15/4/13

55: 1ST HALF-13 (m)-JP

Con. 3568-13.

Anatomy, Physiology and Pathophysiology - I
15th April 2013 Sem - I (A - T.K.T) Rev.

Sem. I (Rev.) ATKT. A.P.P. - I

DC-1964

(2 Hours)

[Total Marks : 40

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

- (2) Attempt any **four** questions from Question Nos. 2 to 6.
(3) Draw **diagrams** wherever **necessary**.

1. (a) Draw a neat labelled diagram of the TS of lymph node. 4
(b) Define (any **four**) of the following :— 4
(i) Osmosis
(ii) Passive transport
(iii) Hemostasis
(iv) Leucopoiosis
(v) Receptor.
2. Explain in detail life cycle of RBC. 8
3. (a) Give the physiology of skeletal muscle contraction. 4
(b) Differentiate between (any **two**) :— 4
(i) Skeletal muscle and smooth muscle
(ii) Isometric and isotonic contraction
(iii) White fibres and yellow fibres of connective tissue.
4. (a) Classify types of leukocytes. Elaborate on the structure and functions of leukocytes. 4
(b) What are the primary and secondary lymph organs ? State functions of spleen. How is lymph formed ? 4
5. (a) Define diffusion. Explain various mechanisms of diffusion. 4
(b) Draw a neat labelled diagram of the plasma membrane. State the functions of plasma membrane. 4
6. Write short notes on (any **two**) :— 8
(a) Hemolytic disease of the new born
(b) Myasthenia gravis
(c) Type II and Type III hypersensitivity reactions.