

[LQ 121]

AUGUST 2020
(MAY 2020 SESSION)

Sub. Code: 2018

M.D. DEGREE EXAMINATION

BRANCH V – PHYSIOLOGY

**PAPER I – GENERAL PHYSIOLOGY, BLOOD, DIGESTION AND
TISSUES OF THE BODY**

Q.P. Code: 202018

Time : Three Hours

Maximum : 100 Marks

I. Essay Questions:

(2 x 15 = 30)

1. Describe the mechanisms to study activity of ion channels across a cell membrane. Add a note on electrogenic pump. (10+5=15)
- 2.a.) Describe in detail about T cell mediated immunity with appropriate diagrams.
- b.) Add a note on mechanism behind graft versus host disease and rejection of transplants.

II. Short notes:

(10 x 5 = 50)

1. JAK-STAT Pathway
2. Intercellular communication.
3. Endocytosis
4. Clot retraction
5. Complement system
6. Rh incompatibility
7. Bacterial flora
8. Enteric nervous system
9. Gastrin
10. Molecular motors.

III. Reasoning Out:

(4 x 5 = 20)

1. Why normocytic normochromic anemia is common in chronic renal disease.?
2. Physiological significance of pH and buffering.
3. Significance of stress proteins.
4. Post – prandial alkaline tide.
