

M.Sc. PHYSIOLOGY DEGREE EXAMINATION**(For Candidates admitted from 2008-2009 regulations)****PAPER I – GENERAL PHYSIOLOGY AND BODY FLUIDS****Q.P. Code: 281101****Time : Three Hours****Maximum : 100 marks****Answer ALL questions in the same order.****I. Elaborate on:**

Pages (Max.)	Time (Max.)	Marks (Max.)
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|--|----|---------|----|
| 1. Write an essay on cell membrane transport protein. | 17 | 40 min. | 20 |
| 2. What is Homeostasis? Discuss the various regulatory mechanisms involved in Homeostasis? | 17 | 40 min. | 20 |

II. Write Notes on:

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|---|---|---------|---|
| 1. Endoplasmic Reticulum. | 4 | 10 min. | 6 |
| 2. Genesis of Resting membrane Potential. | 4 | 10 min. | 6 |
| 3. Sucrose Space. | 4 | 10 min. | 6 |
| 4. Local Potential. | 4 | 10 min. | 6 |
| 5. Starling's Forces. | 4 | 10 min. | 6 |
| 6. Nernst Potential. | 4 | 10 min. | 6 |
| 7. Transcellular fluid compartment. | 4 | 10 min. | 6 |
| 8. Propagation of Action Potential. | 4 | 10 min. | 6 |
| 9. Growth Factors. | 4 | 10 min. | 6 |
| 10. Apoptosis. | 4 | 10 min. | 6 |

[LD 1013]

OCTOBER 2013

Sub. Code: 1101

M.Sc. PHYSIOLOGY DEGREE EXAMINATION
(For Candidates admitted from 2008-2009 regulations)

FINAL YEAR

PAPER I – GENERAL PHYSIOLOGY AND BODY FLUIDS

Q.P. Code: 281101

Time : Three Hours

Maximum : 100 marks

Answer ALL questions

I. Elaborate on:

(2 x 20 = 40)

1. Name the different fluid compartments in the body, the volume of each and the methods by which they can be measured.
2. Discuss in detail the intrinsic and extrinsic mechanism of hemostasis.

II. Write notes on:

(10 x 6 = 60)

1. Ion channels.
2. Theories of aging.
3. Plasma proteins.
4. Classification of anaemia.
5. Mast cells.
6. Cytokines.
7. Fibrin degradation products.
8. Hemolytic Disease of Newborn.
9. Phagocytosis.
10. Cell adhesion molecules.
