

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

FINAL YEAR

PAPER II – SYSTEMIC PHYSIOLOGY

Q.P. Code: 281102

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. Describe in detail the stages of erythropoiesis and the factors affecting it. Add a note on iron deficiency anemia. | 17 | 40 min. | 20 |
| 2. Describe the components, connections and functions of basal ganglia. Add a note on Parkinson's disease. | 17 | 40 min. | 20 |

II. Write Notes on:

- | | | | |
|---|---|---------|---|
| 1. Molecular basis of skeletal muscle contraction. | 4 | 10 min. | 6 |
| 2. Deglutition. | 4 | 10 min. | 6 |
| 3. Define Glomerular filtration rate and elaborate on factors affecting it. | 4 | 10 min. | 6 |
| 4. Oxygen transport in blood. | 4 | 10 min. | 6 |
| 5. Short term regulation of blood pressure. | 4 | 10 min. | 6 |
| 6. Functions of middle ear. | 4 | 10 min. | 6 |
| 7. Acromegaly. | 4 | 10 min. | 6 |
| 8. Functions of immunoglobulins. | 4 | 10 min. | 6 |
| 9. Active transport mechanisms. | 4 | 10 min. | 6 |
| 10. Digestion and absorption of proteins. | 4 | 10 min. | 6 |

[LD 1013]

OCTOBER 2013

Sub. Code: 1102

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Answer ALL questions

I. Elaborate on:

(2 x 20 = 40)

1. Describe the cardio respiratory changes during exercise.
2. Describe the composition, function and regulation of secretion of pancreatic juice.

II. Write notes on:

(10 x 6 = 60)

1. O₂, Hb dissociation curve.
2. Mechanism of tubular reabsorption and secretion by kidney.
3. Discuss the factors controlling cardiac output.
4. Discuss the chemical regulation of respiration.
5. What is Hypoxia? Describe the types of hypoxia.
6. Non respiratory function of lung.
7. Juxta glomerular apparatus.
8. Mechanism of secretion of Hcl.
9. Micturition reflex.
10. Dead space and importance.
