

**SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH****(A DEEMED TO BE UNIVERSITY)****Post Graduate Degree Examination – May - 2013****Time : 3 Hrs.****[Max. Marks : 100]****M.D PHYSIOLOGY****PAPER - I****Q.P Code : 1201**

*Your answers should be specific to the questions asked.  
Draw neat labelled diagrams wherever necessary.*

**LONG ESSAY****2 X 20 = 40 Marks**

1. Describe the various types of transport across cell membranes.
2. Describe the evolution of the respiratory system.

**SHORT ESSAY****6 X 10 = 60 Marks**

3. Protein synthesis and its regulation.
4. Physiology of Ageing.
5. Ionic basis of the resting membrane potential and action potential.
6. Mechanism of action of hormones.
7. Growth factors.
8. Contributions of J E Purkinje to physiology.

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*Your answers should be specific to the questions asked.  
Draw neat labelled diagrams wherever necessary.*

**LONG ESSAY****2 X 20 = 40 Marks**

1. Discuss in detail about the hemostasis. Add a note on von-willebrand's disease.
2. Describe in detail the regulation of blood pressure. Add a note on role of diuretics in the management of hypertension.

**SHORT ESSAY****6 X 10 = 60 Marks**

3. Zollinger ellisons syndrome.
4. Counter current mechanism.
5. Electrophysiology of GI smooth muscle.
6. Electrocardiogram.
7. Erythroblastosis foetalis.
8. Composition and functions of exocrine pancreatic secretion.

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Draw neat labelled diagrams wherever necessary.*

**LONG ESSAY****2 X 20 = 40 Marks**

1. Hormonal regulation of growth.
2. Effects of complete spinal transaction and recovery.

**SHORT ESSAY****6 X 10 = 60 Marks**

3. Cerebral specilisation.
4. Synaptic plasticity.
5. Single unit smooth muscle.
6. Neuroglia.
7. Fight or flight reaction.
8. Hypoglycemia.