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SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH
(A DEEMED TO BE UNIVERSITY)

Post Graduate Degree Examination – April / May - 2012

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. Ion channels
2. G - Proteins

SHORT ESSAY

6 X 10 = 60 Marks

3. Nernst Equation
4. Osmosis
5. Transcription
6. Von Bekesy
7. Molecular Motors
8. Intercellular Connections

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PAPER - II

Q.P Code : 1202

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LONG ESSAY

2 X 20 = 40 Marks

1. Describe the Pathophysiology of Acid Peptic Disease. Discuss the Physiological basis for its management.
2. Discuss how ionotropic functions of Heart studied. Add a note on abnormal pacemaker and implanted pacemakers.

SHORT ESSAY

6 X 10 = 60 Marks

3. Discuss Intestinal Absorption of Iron.
4. Tissue Macrophage System.
5. Describe the compensatory changes for low barometric pressure exposure.
6. Discuss the Role of Magnocellular Neurons in maintaining plasma osmolality.
7. Discuss the ventilatory response to exercise.
8. Acidification of urine.

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PAPER III

Q.P Code : 1203

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LONG ESSAY

2 X 20 = 40 Marks

1. Describe the synthesis, secretion, regulation and functions of Adrenal cortical hormones
2. Explain the changes that are taking place during skeletal muscle contraction

SHORT ESSAY

6 X 10 = 60 Marks

3. Opioid analgesic system and it's importance
4. Connections and functions of Cerebellum. What is the importance of Romberg's sign?
5. Extra pyramidal tracts
6. Pheochromocytoma
7. Rheobase and chronaxie
8. REM and NREM sleep disorders

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PAPER IV

Q.P Code :1204

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LONG ESSAY

2 X 20 = 40 Marks

1. Trace the optic pathway and explain the effect lesions at various levels.
2. Discuss in detail causes, investigations and management of male infertility

SHORT ESSAY

6 X 10 = 60 Marks

3. Capacitation of sperms
4. Yoga and its physiological importance
5. Ultra sounds and its clinical applications
6. Primary taste sensations.
7. Hair cells of organ of corti
8. Nerve deafness

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