

Q.P CODE : 1201

SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH

(A DEEMED TO BE UNIVERSITY)

Post Graduate Degree Examination – April / May 2011

Time : 3 Hrs.

[Max. Marks : 100]

M.D. PHYSIOLOGY

PAPER - I

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



LONG ESSAY

2 X 20 = 40 Marks

1. Discuss the Ionic Fluxes seen in Action Potential in a Myelinated nerve.
2. Describe the role of various feedback mechanisms in maintenance of milieu interior in human body.

SHORT ESSAY

6X 10 = 60 Marks

3. Intercellular connections
4. Human genome
5. Poiseuille- Hagen formula
6. Describe the structural and functional differences between amphibian and mammalian hearts
7. Contribution of Starling to Physiology
8. Glucose Transporters in mammals

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PAPER - II

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LONG ESSAY

2 X 20 = 40 Marks

1. Describe in detail the regulation of heart rate.
2. Discuss in detail the various types of anaemia with suitable examples.

SHORT ESSAY

6X 10 = 60 Marks

3. Mucosal barrier
4. Kidney as an endocrine gland
5. Hypoxic hypoxia
6. Mountain sickness
7. Transfusion reactions and their physiological basis
8. Oxygen debt

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Q.P CODE : 1203

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PAPER - III

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Draw neat labelled diagrams wherever necessary. Answer all questions*



LONG ESSAY

2 X 20 = 40 Marks

1. Describe in detail the role of hormones in growth
2. Describe in detail the role of cerebellum and basal ganglia in the control of movement

SHORT ESSAY

6X 10 = 60 Marks

3. Non metabolic functions of cortisol
4. Physiological basis of polyphagia, polydipsia and polyuria in diabetes mellitus
5. Compare the skeletal muscle contraction with that of the smooth muscle
6. Saturday night palsy
7. Slow wave sleep
8. Aphasia

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PAPER - IV

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LONG ESSAY

2 X 20 = 40 Marks

1. Describe the neural circuits in olfactory bulb. Trace the olfactory pathway. Add a note on abnormalities of smell sensation.
2. Describe how lactation is initiated and maintained. Add a note on Gynaecomastia

SHORT ESSAY

6X 10 = 60 Marks

3. Mechanism of action of photoreceptor in rods
4. Discuss the control of onset of puberty in male. Add a note on delayed puberty in female.
5. Oral Contraceptive pill
6. Abnormalities of sex chromosomes
7. Describe the effect of ageing on audition and vision
8. Describe the influence of pranayama on respiratory functions

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