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Rajiv Gandhi University of Health Sciences, Karnataka Post Graduate Degree Examination - APRIL/MAY 2015

[Time: 3 Hours]

[Max. Marks: 100]

MD - PHYSIOLOGY
PAPER - I (Revised Scheme)
Q. P. CODE: 7415

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

LONG ESSAYS

 $2 \times 20 = 40 \text{ Marks}$

- Discuss the evolution of respiratory system.
- 2. Describe various physical principles involved in optics or vision. Describe various refractive errors and their correction. Add a note on 'Reduced eye'.

SHORT ESSAYS

 $6 \times 10 = 60 \text{ Marks}$

- Contribution of Arthur C. Guyton to physiology
- 4. Gibb's Donnan equation
- 5. Apoptosis
- 6. Ultra filtration and dialysis
- 7. Antioxidants
- 8. Active transport mechanisms.



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Rajiv Gandhi University of Health Sciences

Post Graduate Degree Examination - MAY 2015

Time: Three Hours

Max. Marks: 100 Marks

MD PHYSIOLOGY PAPER- II (Revised Scheme) Q. P. CODE: 7416

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

LONG ESSAY

 $2 \times 20 = 40 \text{ Marks}$

- Explain how plasma albumin determines fluid movement across capillaries. Name four other functions of plasma proteins
- 2. What are baroreceptors? Explain the response of baroreceptors to changes in arterial pressure.

SHORT ESSAY

6 X 10 = 60 Marks

- 3. Describe the hemodynamics of blood flow through the kidneys.
- 4. Reabsorption of electrolyte in the renal tubules.
- 5. Draw the oxygen hemoglobin dissociation curve. Explain the significance of its shape.
- 6. Discuss the neural organization of respiratory control.
- 7. Describe the control of gastric emptying.
- 8. Third Stage of Deglutition.

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Rajiv Gandhi University of Health Sciences, Karnataka Post Graduate Degree Examination - MAY 2015

Time: Three Hours

Max. Marks: 100 Marks

MD PHYSIOLOGY PAPER- III (Revised Scheme) Q. P. CODE: 7417

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

LONG ESSAYS

 $2 \times 20 = 40 \text{ Marks}$

- 1. Describe the pain pathways and the endogenous analgesic systems.
- 2. Discuss the hormonal regulation of growth.

SHORT ESSAYS

 $6 \times 10 = 60 \text{ Marks}$

- 3. Compare the mechanism of excitation contraction coupling in skeletal and smooth muscles.
- 4. Explain the strength duration curve.
- 5. Discuss the effects of complete spinal transection at different levels and recovery from it.
- 6. Explain the neural circuits in the basal ganglia and their relation to clinical disorders.
- 7. Discuss the pathophysiology of Addison's disease.
- 8. Describe the hormones produced by the kidneys.

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Rajiv Gandhi University of Health Sciences, Karnataka Post Graduate Degree Examination - MAY 2015

Time: Three Hours

Max. Marks: 100 Marks

MD PHYSIOLOGY PAPER- IV (Revised Scheme) Q. P. CODE: 7418

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

LONG ESSAYS

 $2 \times 20 = 40 \text{ Marks}$

- Describe the functions of placenta.
- 2. Discuss the physiology of circadian rhythms.

SHORT ESSAYS

 $6 \times 10 = 60 \text{ Marks}$

- Describe the physiology of puberty and disorders.
- 4. Explain the accommodation reflex.
- 5. Discuss the physiology of middle ear.
- 6. Describe the role of yoga in prevention and management of cardiovascular disease and diabetes mellitus.
- 7. Discuss the role of hypothalamus in body temperature regulation.
- 8. Explain the physiology of parturition.
