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Rajiv Gandhi University of Health Sciences, Karnataka

First Phase MBBS Degree Examination – JULY 2015

Time: Three Hours

Max. Marks: 100 Marks

PHSIOLOGY-PAPER I (RS2 & RS3 SCHEME) QP Code: 1077

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

LONG ESSAYS

2 x 10 = 20 Marks

- 1. Describe the coagulation process in detail. Add a note on tests for coagulation.
- 2. Explain the regulation of cardiac output.

SHORT ESSAYS

10 x 5 = 50 Marks

- Conducting system of human heart
- Coronary circulation
- 5. Lung surfactant.
- 6. Bohr effect and Haldane effect
- 7. Cyanosis
- 8. Macrocytic anemia.
- 9. Factors affecting glomerular filtration rate
- 10. Counter current multiplier system
- 11. Gastrin
- 12. Secondary active transport.

SHORT ANSWERS

10 x 3 = 30 Marks

- 13. Inulin clearance
- 14. Parasympathetic innervation of urinary bladder.
- 15. Chemotaxis
- 16. Eosinophil
- 17. Functional residual capacity
- 18. List forms of transport of Carbon dioxide in blood.
- 19. Enteric nervous system
- 20. Composition of bile
- 21. Conditioned salivary secretion
- 22. Body fluid compartments

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M.B.B.S. PHASE - I Degree Examination - JULY 2015

Time: 3 Hrs.

[Max. Marks: 100]

PHYSIOLOGY - II (RS2 & RS3)

QP Code: 1078

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

LONG ESSAY

2 X 10 = 20 Marks

- 1. Describe the parts, connections and functions of cerebellum.
- 2. Describe the ovarian and endometrial changes during menstrual cycle. Explain their hormonal regulation.

SHORT ESSAY

10 X 5 = 50 Marks

- 3. Role of hypothalamus in regulation of food intake
- 4. Components and functions of limbic system
- Role of cortisol in stressful situation
 - . Explain the action of insulin on carbohydrate metabolism.
- 7. Steps in thyroid hormone synthesis and their clinical applications
- 8. Mechanisms involved in accommodation reflex
- 9. Describe taste pathway.
- 10. Describe neuromuscular transmission in skeletal muscle.
- 11. Role of calcium in skeletal muscle contraction
- 12. What is core and shell temperature? Explain heat loss mechanisms.

SHORT ANSWERS

10 X 3 = 30 Marks

- 13. Write the role of epididymis, seminal vesicle and prostate in reproduction.
- 14. Functions of CSF
- 15. Write differences between cardiac and smooth muscle.
- 16. Draw a sarcomere in relaxed and contracted state.
- 17. Three differences between superficial and deep reflexes
- 18. Functions, absorption of Aqueous humor and its applied aspect
- Attenuation reflex and impedance matching
 - J. Draw a visual pathway.
- 21. Mention three hormones regulating blood calcium levels. State their mechanism of actions.
- 22. What is an aldosterone escape?

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