

Rajiv Gandhi University of Health Sciences, Karnataka

MBBS Phase – I Degree Examination - JUNE 2016

Time: Three Hours

Max. Marks: 100 Marks

Physiology – I (RS2 & RS3)

Q.P. 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. Classify T lymphocytes. Explain the mechanism of cellular immunity.
2. Briefly describe the transport of oxygen in blood.

SHORT ESSAYS

10 x 5 = 50 Marks

3. Facilitated diffusion
4. Mechanism of Fibrinolysis
5. Jugular venous pulse
6. Conducting system of the heart
7. Regulation of cerebral blood flow
8. Caissons disease
9. Enterohepatic circulation
10. Movements of intestine
11. Factors affecting GFR
12. Mechanism and regulation of micturition

SHORT ANSWERS

10 x 3 = 30 Marks

13. List six functions of plasma proteins.
14. What is the effect of sympathetic stimulation on pacemaker potential?
15. What is Bainbridge reflex?
16. What is postural hypotension?
17. What is Hering - Breuer reflex?
18. What is pulmonary edema? Name one condition where it is seen.
19. List the functions of Gastrin.
20. What is receptive relaxation?
21. What is the role of vasa recta in counter current mechanism?
22. Functions of large intestine

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M.B.B.S. PHASE - I Degree Examination – JUNE 2016

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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 dorsal column tract and its functions. How its functions are affected in Brown Sequard's syndrome?
2. Describe the steps involved in the synthesis of thyroxine. Explain its physiological functions.

SHORT ESSAY

10 X 5 = 50 Marks

3. Regulation and actions of aldosterone
Clinical features of Cushing's syndrome
5. Hormonal functions of placenta
6. Dark adaptation and nyctalopia
7. Write about storage, release, functions and reuptake of ionic calcium in skeletal muscle.
8. Describe the process of neuromuscular transmission in skeletal muscle.
9. What is EEG? Discuss normal findings of Electro Encephalogram (EEG) in various sleep stages.
10. Difference between Upper Motor Neuron and Lower Motor Neuron lesions
11. Functions of middle ear
12. Body mechanisms activated with exposure to cold

SHORT ANSWERS

10 X 3 = 30 Marks

13. Draw the main connections of neocerebellum with cerebral cortex.
14. Enumerate any three functions of vestibular apparatus.
15. Name three touch receptors. Enumerate three properties of them.
16. Cause and effect of Leutinizing Hormone surge
17. Name two methods for detection of pregnancy. Write about their physiological basis.
18. Differentiate rods from cones.
19. Draw taste pathway from anterior 2/3 of tongue to the cortex.
20. Differentiate endolymph from perilymph
21. Write two functional differences between cardiac and skeletal muscle.
22. Write three differences between A and C type of nerve fibres.

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