

Time : 3 Hrs.

[Max. Marks : 100]

PHYSIOLOGY– PAPER I

Q.P Code : RS -103

Your answers should be specific to the questions asked.

Draw neat labelled diagrams wherever necessary.

LONG ESSAY (Answer any 2 only)

2 X 10 = 20 Marks

1. What is cardiac cycle. Describe the pressure-volume changes in left ventricle. Add a note on second heart sound
2. Describe the oxygen-Haemoglobin disassociation curve. List the factors which shift it to the right. Add a note on Bohr's effect.
3. What is haemostasis? Explain the steps of intrinsic system of blood clotting. Add a note on haemophilia.

SHORT ESSAY (Answer any 10 only)

10 X 5 = 50 Marks

4. Regulation of gastric juice secretion.
5. Functions of bile juice.
6. Juxta glomerular apparatus.
7. Functions of pancreatic juice.
8. Surfactant.
9. Counter current systems in kidney.
10. Ventricular action potential.
11. CNS ischemic response.
12. Functions of plasma proteins.
13. Special features of cerebral circulation.
14. Osmosis.
15. B lymphocytes.

SHORT ANSWERS

10 X 3 = 30 Marks

16. Define cardiac output, stroke volume and cardiac index.
17. Active and reactive hypereamia.
18. Diagram of ECG from Lead II.
19. Define and classify Hypoxia.
20. Small intestine motility.
21. Small intestinal secretions.
22. Renal splay.
23. Define compliance. What is the normal value in lungs alone.
24. Break down products of hemoglobin.
25. Name the respiratory centers.

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M.B.B.S. PHASE – I Degree Examination – July -2014

Time : 3 Hrs.

[Max. Marks : 100]

PHYSIOLOGY– PAPER I I

Q.P Code : RS -104

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

LONG ESSAY (Answer any 2 only)

2 X 10 = 20 Marks

1. Describe the pain pathways. add a note on referred pain
2. Describe the physiological actions of growth hormone. How is it regulated. Add a note on acromegaly
3. Classify smooth muscles. Explain the steps of excitation contraction coupling in smooth muscle.

SHORT ESSAY (Answer any 10 only)

10 X 5 = 50 Marks

4. Visual pathway.
5. Spermatogenesis.
6. Connections and functions of vestibulocerebellum.
7. Functions of placenta.
8. Synaptic inhibition.
9. Role of hypothalamus in food intake.
10. Strength duration curve.
11. Theories of hearing.
12. Hypothyroidism.
13. List the hormones regulating glucose homeostasis. Explain the actions of any one.
14. Milk ejection reflex.
15. Physiological actions of testosterone.

SHORT ANSWERS

10 X 3 = 30 Marks

16. Myopia.
17. Functions of middle ear.
18. Primary taste sensations.
19. Glaucoma.
20. Functions of CSF.
21. Bell-magendies law.
22. Diagram of neuron.
23. Tetany.
24. Causes for infertility in females.
25. Functions of skin.

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PHYSIOLOGY- PAPER I

Q.P Code : SDUU -103

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LONG ESSAY

2 X 10 = 20 Marks

1. List the special features of coronary circulation. How is it measured. Describe the factors affecting it.
2. What is countercurrent mechanism? Describe the role of counter-current multiplier in urine formation.

SHORT ESSAY

10 X 5 = 50 Marks

3. Erythropoiesis.
4. Radial pulse.
5. Classify and discuss shock with examples.
6. Surfactant.
7. Intercellular connections.
8. Haldane's effect.
9. Immunoglobulins.
10. Functions of large intestine.
11. Mechanism of secretion of hydrochloric acid in Stomach.
12. Triple response of lewis.

SHORT ANSWERS

10 X 3 = 30 Marks

13. Functions of bile.
14. Sham feeding.
15. Heart block.
16. Enumerate three non-respiratory functions of lungs.
17. Functional residual capacity-definition, normal value and significance.
18. Steatorrhoea.
19. Caisson disease.
20. Artificial kidney.
21. Compliance.
22. Factors influencing cerebral circulation.

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M.B.B.S. PHASE – I Degree Examination – July-2014

Time : 3 Hrs.

[Max. Marks : 100]

PHYSIOLOGY - PAPER II

Q.P Code : SDUU -104

Your answers should be specific to the questions asked.

Draw neat labelled diagrams wherever necessary.

LONG ESSAY

2 X 10 = 20 Marks

1. Describe auditory pathways with diagram and explain the mechanism of hearing.
2. Classify synapses and describe the mechanism of transmission of impulses across synapses. Add a note on synaptic inhibition.

SHORT ESSAY

10 X 5 = 50 Marks

3. Compound action potential.
4. EEG (Electroencephalogram) changes during different stages of sleep.
5. Muscle tone and its supra spinal control.
6. Association areas of cerebral cortex.
7. Endometrial and ovarian changes during normal menstrual cycle.
8. Inverse stretch reflex and crossed extensor reflex.
9. Hypothalamo-pituitary-adrenal axis.
10. Effects of lesion of left internal capsule.
11. Connections of neo-cerebellum and their functions.
12. Role of hormones acting on osteoblasts and osteoclasts.

SHORT ANSWERS

10 X 3 = 30 Marks

13. Conn's syndrome.
14. Vasectomy and tubectomy.
15. Gonadotropic hormones and their actions in male and female.
16. Role of skin in thermoregulation.
17. Neuro-endocrine reflexes.
18. syringomyelia.
19. Conduction of nerve impulse in myelinated and unmyelinated nerve fibres.
20. Action potential recording from a mixed nerve preparation.
21. Types of smooth muscles and their properties.
22. Primary colors and color blindness.