

July - 2014

BLDE UNIVERSITY
MBBS PHASE - I EXAMINATION

[Time : 3 Hours]

[Max.Marks : 100]

PHYSIOLOGY – PAPER - I

QP CODE : 1003

Your answer should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary.

Each answer should be written on new page only.

Write Question No. in left side of margin.

Long Essay: (Answers to be started on fresh page only) 2x10=20

1. Define hemostasis. Describe the mechanisms involved in hemostasis (2+8)
2. Define GFR. Describe the factors determining it. How is it measured? (2+6+2)

Short Essay: (Answers to be started on fresh page only) 10x5=50

3. Plasma proteins.
4. Lung Compliance.
5. Hypoxic hypoxia.
6. Functional Residual Capacity.
7. Pace maker potential
8. Venous return.
9. ECG changes in myocardial infarction.
10. Gastric phase of gastric secretion.
11. Functions of bile.
12. Defecation reflex.

Short Answers: (Leave three lines gap between the answers) 10x3=30

13. Erythropoietin.
14. Difference between Phagocytosis and Pinocytosis
15. Name the factors determining peripheral resistance.
16. Define cardiac index. Write its normal value and significance.
17. Cushing reflex
18. P-50.
19. Respiratory membrane.
20. Chyene Stokes breathing.
21. Write the composition of ECF and ICF.
22. Na⁺-K⁺ Pump

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Long Essay: (Answers to be started on fresh page only)

2x10=20 marks

1. Define cardiac output. Describe the factors regulating it.
2. Define GFR (Glomerular Filtration Rate). Describe the factors affecting GFR.

Short Essay: (Answers to be started on fresh page only)

10x5=50 marks

3. Passive transport across cell membrane.
4. Rh factor.
5. Cardiac action potential.
6. Peculiarities of coronary circulation.
7. Oxygen hemoglobin dissociation curve.
8. Lung Surfactant.
9. Micturition reflex.
10. Juxta Glomerular apparatus.
11. Enterohepatic circulation of bile salts.
12. Composition and functions of pancreatic juice.

Short Answers: (Leave three lines gap between the answers)

10x3=30 marks

13. List the ionic differences between ICF and ECF.
14. Hemophilia.
15. Gastrin.
16. SCUBA.
17. Dead space air: Definition, types and normal value.
18. List the differences between cortical and Juxtamedullary nephrons.
19. Laboratory classification of anemia.
20. List the factors affecting Venous return..
21. Lower Esophageal sphincter.
22. List the properties of cardiac muscle.

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PHYSIOLOGY – PAPER - II

QP CODE : 1004

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Draw neat labeled diagrams wherever necessary.

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Write Question No. in left side of margin.

Long Essay: (Answers to be started on fresh page only)

2x10=20

1. Name the functional divisions of Cerebellum. Explain the connections and functions of it.
Add a note on Cerebellar disease. (2+3+3+2)
2. Draw a neat & labeled diagram of Neuromuscular Junction .Enumerate the events which occur during transmission. Add a note on Myasthenia Gravis. (3+4+3)

Short Essay: (Answers to be started on fresh page only)

10x5=50

3. Describe the Endometrial changes during Menstrual cycle.
4. With a neat diagram describe the Visual Pathway.
5. Define and classify the Synapses.
6. Describe the actions of Thyroid hormone. Add a note on myxoedema.
7. Describe the Neuroendocrine Reflex with example.
8. Enumerate the differences between Upper Motor Neuron lesion and Lower Motor Neuron lesion.
9. Theories of Colour Vision.
10. Endocochlear potential.
11. Describe the Olfactory Pathway and its significance.
12. Functions of growth hormone.

Short Answers: (Leave three lines gap between the answers)

10x3=30

13. Cretinism.
14. Aldosterone escape
15. Describe the role of Testosterone in fetal life.
16. Explain how sweating helps to regulate body temperature.
17. Classify Sensory Receptors.
18. Explain the basis of Phantom Pain.
19. Tests for ovulation.
20. Tetany.
21. Addison's Disease.
22. Fetoplacental Unit.

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MBBS PHASE - I EXAMINATION
(REVISED SCHEME)
PHYSIOLOGY – PAPER - II
QP CODE : 1004

[Time : 3 Hours]

[Max.Marks : 100]

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Each answer should be written on new page only.
Write Question No. in left side of margin.

Long Essay: (Answers to be started on fresh page only)

2x10=20 marks

1. Name the anterior pituitary hormones. Describe the secretion, regulation and actions of Growth hormone. Add a note Acromegaly. (2+6+2)
2. With a neat labeled diagram, trace the visual pathway. Explain the effect of lesions at various levels in it's course. Add a note on field of vision. (3+5+2)

Short Essay: (Answers to be started on fresh page only)

10x5=50 marks

3. Hypothalamo hypophyseal axis.
4. Mention cause and clinical features of Cushing's syndrome.
5. Thyroid function tests.
6. Synaptic inhibition.
7. Referred pain.
8. Action potential in a nerve fiber with ionic basis.
9. Myaesthesia gravis.
10. Brown sequard syndrome
11. Oral contraceptive pill.
12. Tetany : Definition, Types and Features.

Short Answers: (Leave three lines gap between the answers)

10x3=30 marks

13. List the differences between Osmotic and Pressure diuresis.
14. Differences between REM and NREM sleep.
15. Mention important features of auditory pathway.
16. Milk ejection reflex.
17. Draw a neat and labeled diagram of Sarcomere in contracted state and relaxed state.
18. Blood Brain Barrier: Definition, Diagram and Importance.
19. Colour Blindness.
20. Permissive action of a hormone.
21. List the differences between Cortical and Juxtamedullary nephron.
22. Thalamic syndrome : Cause and Features.