

July 2018

BLDE UNIVERSITY
MBBS PHASE - I EXAMINATION

[Time : 3 Hours]

[Max.Marks : 100]

PHYSIOLOGY – PAPER - I
QP CODE: 1023

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. Describe the composition of gastric juice and its regulation .Add a note on mechanism for secretion of gastric hydrochloric acid.
2. Explain Oxygen transport in blood

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

10x5=50

3. Juxtaglomerular apparatus.
4. Total body water
5. Left ventricular pressure changes during cardiac cycle
6. Acclimatization
7. Precordial unipolar leads in ECG.
8. Feedback mechanisms
9. Renal tubular reabsorption of glucose
10. Blood transfusion reactions.
11. Renal function tests.
12. Coronary Blood Flow

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

10x3=30

13. Diffusion
14. Functions of the ileocecal valve
15. Law of the Gut.
16. Compare and contrast hepatic and cystic bile
17. Functional Residual Capacity.
18. Cystometrogram.
19. JVP.
20. Peripheral resistance
21. What is meant by exocytosis and endocytosis? Give examples for each
22. Creatinine Clearance

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PHYSIOLOGY – PAPER - I

QP CODE: 1013

Your answer should be specific to the questions asked.

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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

1. Define blood pressure. Describe regulation of blood pressure.
2. Describe nervous regulation of respiration.

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

10x5=50

3. Body fluid compartments.
4. Pacemaker potential.
5. Enzymes in pancreatic juice and their functions.
6. Cystometrogram.
7. Rh Factor.
8. Asphyxia.
9. Iron deficiency anaemia – Definition, cause, features and mode of treatment.
10. Functions of stomach.
11. Heart sounds.
12. Oxygen Hemoglobin dissociation curve.

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

10x3=30

13. Define and give normal values of (a) Stroke volume (b) Cardiac output (c) Cardiac Index.
14. Cyanosis: Definition, types and causes.
15. Bainbridge reflex.
16. Mention the causes and features of (a) Atonic bladder (b) Automatic bladder.
17. PR Interval.
18. Secondary active transport.
19. Movements of large intestine.
20. Special features of renal blood flow.
21. Functions of distal convoluted tubule.
22. In vitro anticoagulants.

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PHYSIOLOGY – PAPER - II

QP CODE: 1014

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 synapse. List the properties of synapse. Describe any three of them in detail.
2. Mention normal serum calcium level. Describe the role of hormones in calcium homeostasis. List clinical features of hypocalcemic tetany.

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

10x5=50

3. Describe the hormonal and endometrial changes that take place during menstrual cycle.
4. Describe the contents and functions of middle ear.
5. List the hormones secreted by anterior pituitary gland. Explain the principle by which these hormones are regulated.
6. Draw a neat and labeled diagram of optic pathway. Diagrammatically represent visual field defects caused due to lesions in optic pathway.
7. Describe the travelling wave theory. Mention the types of deafness.
8. Explain the physiological basis of clinical features present in Cushing's syndrome.
9. List the properties of sensory receptor. Describe any two of them in detail.
10. Compare and contrast features of UMN and LMN lesions.
11. Describe neuro endocrine reflex with an example.
12. Describe the sequence of events that take place in the neuromuscular junction when an action potential reaches the axon terminal.

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

10x3=30

13. List three differences between pituitary and thyroid dwarfs.
14. Justify the use of Neostigmine in the treatment of myasthenia gravis.
15. Binocular vision.
16. List the temporary methods of contraception in female individuals.
17. List the factors stimulating aldosterone release.
18. Draw a neat and labeled diagram of taste pathway.
19. List three differences between REM & NREM sleep.
20. List three signs of cerebellar lesion.
21. Mention one factor regulating spermatogenesis and explain its role in regulation
22. Functions of placenta.

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MBBS PHASE - I EXAMINATION

[Time : 3 Hours]

[Max.Marks : 100]

PHYSIOLOGY – PAPER - II
QP CODE: 1024

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. Discuss the connections and functions of cerebellum. Explain neurologic abnormalities that occur in cerebellar disease.
2. Describe the hormones that affect the plasma glucose concentration. Describe the principal features of insulin-dependent (type 1) and non-insulin-dependent (type 2) diabetes mellitus.

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

10x5=50

3. Corticospinal Tract
4. Parkinson's Disease
5. Actions and regulation of Cortisol
6. Actions and regulation of Oxytocin
7. Compare and contrast actions of Adrenaline and nor adrenaline
8. Functions of thalamus .
9. Sliding filament mechanism of muscle contraction
10. Hormonal interplay in calcium homeostasis
11. Menstrual cycle
12. CSF

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

10x3=30

13. Functions of hypothalamus
14. Intraocular pressure
15. Olfactory pathway
16. Field of Vision
17. Inhibin
18. Thermo regulatory centres
19. Taste Bud
20. Role of ADH
21. Thyroid Stimulating Hormone .
22. Lateral inhibition