

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 Cardiac Output. How it is regulated. Write any one method in detail for measurement of cardiac output. (2+4+4)
2. Describe the Mechanics of Respiration along with Pressure Volume changes taking place during it. (5+5)

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

10x5=50

3. Factors affecting Venous Return.
4. Genesis of Pacemaker Potential and its neural modulation.
5. Gastric acid secretion.
6. Describe the Counter current Multiplier and Exchanger.
7. Classify the ANEMIAS and describe any two of them.
8. Complementary System.
9. Describe the circulatory changes in muscular exercises.
10. Composition and functions of Pancreatic juice.
11. Renal Function Test.
12. Describe the Compliance of lung.

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

10x3=30

13. Decompression Sickness.
14. Hemophilia.
15. Sham Feeding.
16. G- proteins.
17. Define Residual volume with normal value.
18. Chemotaxis.
19. Define Jaundice and classify it.
20. Name the Bile Salts and mention their functions.
21. G.F.R. definition and normal value
22. Tubular Maximum.

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1. Name the respiratory centres .Explain the neural regulation of respiration. (2+8)
2. Describe the renal mechanisms of maintenance of normal specific gravity of urine.

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

10x5=50 marks

3. JG Apparatus : Definition, Diagram and Description.
4. Cystometrogram : Definition, Diagram and Description.
5. Left ventricular pressure changes during cardiac cycle.
6. Sino aortic mechanism.
7. Discuss changes that occur during acclimatization to high altitude.
8. Define Dead Space? What are the types ? How it is measured?
9. Functions of liver.
10. Composition and functions of succus entericus.
11. Explain Intrinsic mechanism of blood clotting.
12. Rh factor.

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

10x3=30 marks

13. Mention two anticoagulants. Give mechanism of action of anyone.
14. Reticulocytes .
15. What is P-R interval? What is it's significance?
16. What is Vagal tone? Give it's importance.
17. Hyaline membrane disease.
18. Define and give normal values of a) Intra pleural pressure b) Intra pulmonary Pressure
c) Transpulmonary Pressure
19. Define and name the causes of Atonic bladder and automatic bladder.
20. Define and give examples for cholagogues and choleretics.
21. List the functions of large Intestine.
22. Draw a neat and labeled diagram of Jugular venous pulse tracing.

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PHYSIOLOGY – PAPER - II

QP CODE : 1004

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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. Describe in detail, regulation of Calcium in the body.
2. Describe the connections and functions of Basal ganglia. Add a note on Paralysis Agitans.

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

10x5=50

3. With a neat diagram explain the Muscle Spindle.
4. Pupillary Light Reflex.
5. Functions of Placenta.
6. Diabetes Mellitus.
7. Contraceptive methods.
8. Neuromuscular Junction.
9. EEG.
10. Functions of Middle Ear.
11. Glial cells.
12. Describe the Taste Pathway and its significance.

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

10x3=30

13. Actions of the A.D.H. (Anti Diuretic Hormone).
14. What is Menarche and Menopause.
15. Triple Response.
16. Babinski Sign.
17. Astigmatism.
18. Functions of Cerebellum.
19. Motor Aphasia.
20. Sensory ataxia
21. Acromegaly.
22. Hearing Tests.

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(REVISED SCHEME)
PHYSIOLOGY – PAPER - II

[Max.Marks : 100]

QP CODE : 1004

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Write Question No. in left side of margin.

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

2x10=20 marks

1. Classify cerebellum functionally. Describe the organization, connections, functions and effects of lesion of cerebellum. (1+2+2+3+2)
2. Discuss the biosynthesis, mechanism of action, regulation of secretion and actions of hormones of adrenal cortex. (2+2+2+4)

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

10x5=50 marks

3. Describe the Endogenous pain inhibiting system..
4. Describe the visual pathway and effect of lesion at various levels of the pathway.
5. Describe the stages of spermatogenesis and factors that influence it.
6. Discuss the events that occur at neuromuscular junction during transmission of nerve signals.
7. Parkinsonism : Cause, Features and Mode of treatment.
8. Discuss the travelling wave theory of pitch discrimination of sound waves.
9. Discuss the biosynthesis and functions of thyroid hormones.
10. Describe the taste bud and trace the gustatory pathway.
11. Discuss the physiology of ovulation.
12. Features of Diabetes Mellitus.

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

10x3=30 marks

13. What is Brown-Sequard syndrome?
14. Describe the Argyll-Robertson pupil.
15. Diabetes insipidus : Cause and Features.
16. List the functions of Testes.
17. What is refractory period and what role it plays?
18. Draw a neat and labeled diagram of Neuron.
19. HCG
20. List the functions of middle ear.
21. List the differences between NREM and REM sleep.
22. Thalamic Syndrome : Cause and Features.