

**BLDE UNIVERSITY**  
**MBBS PHASE - I EXAMINATION**  
**(REVISED SCHEME)**  
**PHYSIOLOGY – PAPER - I**  
**QP CODE : 1003**

[Time : 3 Hours]

[Max.Marks : 100]

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 marks**

1. Name Blood group system. Explain the basis for it's classification .Describe briefly any one Blood group system. (2+3+5)
2. Define and give normal values of cardiac output and cardiac index .Discuss the factors affecting cardiac output. Add a note on one method of measurement of cardiac output. (3+5+2)

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

3. T Lymphocyte
4. Classify anemias based on blood indices .Explain anyone type of Anaemia.
5. Explain origin and spread of cardiac impulse.
6. Lung surfactant.
7. Classify hypoxia. Explain any two of them.
8. Give composition and functions of gastric juice.
9. Enteroheptaic circulation of bile salts.
10. Explain nerve supply to urinary bladder. Add a note on micturition reflex.
11. Explain the factors affecting glomerular filtration rate.
12. Hypovolemic shock : Definition, Causes and Features.

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

13. Facilitated diffusion.
14. JVP
15. List the functions of plasma proteins.
16. ESR : Definition, Normal value and importance.
17. Explain a) Resistance vessels      b) Capacitance vessels      c)Exchange vessel.
18. Cyanosis : Definition, Types and causes.
19. Define Functional Residual Capacity. Give it's significance.
20. Mention functions of saliva.
21. What are cholegogues and choleretics?
22. Define and give normal values of a) Renal threshold for glucose b) TmG

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(REVISED SCHEME)

**PHYSIOLOGY – PAPER - II**

**QP CODE : 1004**

[Max.Marks : 100]

[Time : 3 Hours]

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 marks**

1. Describe the molecular basis of muscle contraction.
2. What is normal blood sugar level? How is it regulated? Add a note on Diabetes mellitus.

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

3. Synaptic inhibition.
4. Endogenous pain inhibiting system.
5. Functions of Limbic system.
6. Compare and contrast the actions of epinephrine and Nor epinephrine.
7. Functions of placenta.
8. CSF : Formation, Circulation, drainage and Functions
9. Actions and regulation of secretion of Growth hormone.
10. Formation, drainage and functions of Aqueous humour.
11. Mechanism of appreciation of sound by human ear.
12. Transmission of impulse in myelinated and unmyelinated nerve fibers.

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

13. Draw a neat and labeled diagram of reflex arc.
14. Define terms a) Chronaxie b) Rheobase c) Utilization time
15. Mention normal waves of EEG. Mention two uses of EEG.
16. Mention six features UMN lesion.
17. Law of projection.
18. Mention the causes and corrections of a) Myopia. b)Hypermetropia c) Presbyopia
19. List the functions of middle ear.
20. LH Surge.
21. Functions of sertoli cells.
22. Mention differences between pituitary and thyroid dwarf.