

**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. Define erythropoiesis. Discuss various stages of erythropoiesis. Add a note on factors affecting it.
2. Describe the counter current mechanism in concentration of urine.

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

**10x5=50 marks**

3. Diffusion
4. Gastric emptying time : Definition and factors affecting it.
5. Pace maker potential.
6. List the properties of cardiac muscle and discuss any two of them in detail.
7. Dead space air.
8. Dysbarism.
9. Cystometrogram.
10. Inulin clearance
11. Functions of bile.
12. Active transport across cell membrane.

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

**10x3=30 marks**

13. Cross matching.
14. Enumerate function of: a) Mitochondria b) Lysosome c) Endoplasmic reticulum.
15. ESR : Definition, Normal Value and Importance.
16. List the functions of large intestine.
17. List the functions of saliva.
18. List the differences between 1<sup>st</sup> and 2<sup>nd</sup> heart sounds.
19. Define and give normal values of a) Cardiac Output b) Stroke volume c) End diastolic volume
20. PR interval.
21. Vital capacity.
22. Cyanosis : Definition, types and causes.

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

[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. What is pain? Discuss the pain pathways from face and limbs. Add a note on endogenous pain inhibiting system. (1+6+3)
2. What is normal level of serum calcium? Discuss hormonal regulation of serum calcium level. Add a note on tetany. (1+6+3)

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

**10x5=50 marks**

3. Describe impedance matching.
4. Binocular vision.
5. Ovulation : Definition and Tests to detect it.
6. Functions of placenta.
7. Explain the pathophysiology of polyurea, polydypsia and polyphagia of diabetes mellitus.
8. Define and describe excitation-contraction coupling in skeletal muscle.
9. Describe the actions of cortisol.
10. Describe milk ejection reflex.
11. Describe the functions of cerebellum.
12. Features of acromegaly.

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

**10x3=30 marks**

13. Rigor mortis and its significance.
14. Draw a neat & labeled diagram of reflex arc.
15. Law of projection.
16. Taste Bud.
17. Blood Brain Barrier : Definition, Diagram and Importance.
18. Differences between UMN and LMN lesions.
19. Differences between EPSP and IPSP
20. Differences between NREM and REM sleep.
21. Functions of Sertoli cells.
22. Saltatory conduction of nerve impulse.