

(New course) January 2019

**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 mechanisms of regulation of blood pressure. Add a note on essential hypertension
2. Describe the mechanisms of regulation of respiration.

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

3. Factors influencing erythropoiesis
4. Morphology and functions of platelet
5. Functions and regulation of secretion of pancreatic juice.
6. Mechanism of secretion of HCl in stomach
7. Oxygen-Hemoglobin dissociation curve.
8. Dead space air
9. Renal mechanisms for excreting dilute urine
10. Coronary blood flow
11. VA/Q ratio
12. ESR

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

13. Types of T lymphocytes and mention their functions
14. Prevention and treatment of erythroblastosis foetalis
15. Lower Esophageal Sphincter.
16. Peristalsis in the small intestine.
17. Differences between first and second heart sounds.
18. Action Potential in cardiac muscle.
19. Define and give normal values of a) End Diastolic Volume b) End Systolic Volume c) Stroke Volume.
20. Glomerular Filtration Rate.
21. Draw a neat and labeled diagram of cell membrane
22. Goldman's equation.

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[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. Describe the origin, course, termination and functions of corticospinal tract with the help of a neat labeled diagram. List the effects of lesion of this tract in right internal capsule. 6 + 4
2. With the help of a neat labeled diagram describe the mechanism of action, functions and regulation of secretion of growth hormone. 3+4+3

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

**10x5=50**

3. Acuity of vision
4. Foetoplacental Unit.
5. Functions of glucocorticoids.
6. Pain pathway
7. Physiology of puberty.
8. Sarcomere
9. Contents and functions of middle ear
10. Pathway for taste sensation.
11. Properties of receptors
12. Ionic basis of Action Potential of a nerve.

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

**10x3=30**

13. Tests for ovulation.
14. Tests of hearing
15. Functions of glucagon.
16. Thalamic Syndrome.
17. Distal changes in axon following nerve injury.
18. Mechanisms of heat loss.
19. Hyperparathyroidism.
20. Synaptic inhibition.
21. EEG
22. Orthodromic and antidromic conduction.