

BLDE UNIVERSITY  
M.B.B.S. PHASE – I DEGREE EXAMINATION –

JULY 2011

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.

**LONG ESSAYS**

2 X 10 = 20 Marks

1. Define Immunity. Describe the role of lymphocytes in Immunity. Add a note on Auto-immune diseases. (2+6+2)
2. Describe Neural regulation of Respiration in detail. Add a note on Periodic breathing. (5+5)

**SHORT ESSAYS**

5 X 10 = 50 Marks

3. Anemia.
4. Digestion and absorption of proteins.
5. Functions of Stomach.
6. Plasma Proteins.
7. Cerebral circulation.
8. Regulation of Heart rate.
9. E.C.G.
10. Kidney function tests.
11. Regulation of cerebral circulation.
12. Regulation of gastric juice secretion.

**SHORT ANSWERS**

10 X 3 = 30 Marks

13. Surfactant in lungs.
14. Timed Vital capacity (FEV1)
15. Ventilation/Perfusion ratio.
16. Defecation reflex.
17. Transport Maximum for glucose (TMG).
18. PAH clearance
19. Bile salts.
20. Sodium reabsorption in PCT.
21. Peculiarities of Coronary circulation.
22. Functions of colon.

# BLDE UNIVERSITY

M.B.B.S. PHASE – I DEGREE EXAMINATION – JULY 2011

Time : 3 Hrs

[Max. Marks : 100]

## PHYSIOLOGY - II

QP Code :1004

Your answer should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary.

### LONG ESSAYS

10 X 2 = 20 Marks

1. What is reflex ? Describe the reflex arc and describe the properties of reflexes. 2+2+6
2. Describe the regulation of serum calcium level. Add a note on tetany. 7+3

### SHORT ESSAYS

10 X 5 = 50 Marks

3. Actions of Testosterone.
4. Discuss generation of Receptor potential.
5. Rhodopsin – retinal visual cycle.
6. Describe the bodily responses on exposure to cold environment. Mention the use of induced hypothermia.
7. Describe the molecular basis of muscle contraction in skeletal muscle.
8. Compare the effects of stimulation of sympathetic and parasympathetic system.
9. Describe in brief role of basilar membrane in mechanism of hearing.
10. Describe the course of pyramidal tract diagrammatically.
11. Describe the regulation of blood sugar level.
12. Describe actions and regulation of aldosterone.

### SHORT ANSWERS

10 X 3 = 30 Marks

13. Myxoedema
14. Sertoli Cells
15. Blood brain barrier
16. Impedance matching
17. Taste buds
18. Describe the circulatory changes at birth
19. Nerve regeneration
20. Circadian rhythm
21. Phantom limb.
22. Argyll Robertson pupil.

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