

# BLDE UNIVERSITY

M.B.B.S. PHASE – I DEGREE EXAMINATION – JULY 2009

Time :3 Hrs

[Max. Marks : 100]

## PHYSIOLOGY - I

**QP Code :1003**

Your answer should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary.

### LONG ESSAYS

**2X10= 20 Marks**

1. Describe the different blood group systems and explain the importance of blood groups. Explain the procedure for determining the blood group of an individual. Add a note on erythroblastosis foetalis. **4+2+2+2**
2. Define cardiac output and cardiac index. Give their normal values. Describe the factors which regulate cardiac output & describe any one method of its determination. **2+2+3+3**

### SHORT ESSAYS

**5X10= 50 Marks**

3. Chloride shift.
4. Venous return.
5. 'Poiseuille Hagen Law' and its application.
6. Vital capacity and FEV1.
7. Deglutition.
8. Salivary secretion and its regulation.
9. Functions of Large intestine.
10. Intrinsic pathway of coagulation.
11. Reticulo- endothelial system.
12. Counter-current multiplier system.

### SHORT ANSWERS

**3X10 = 30 Marks**

13. Plasma clearance.
14. Cystometrogram.
15. Renal tubular buffers.
16. Oxygen dissociation curve.
17. Chylomicron.
18. Bainbridge reflex.
19. Enterohepatic circulation.
20. Cerebral circulation.
21. Role of surfactant in lungs.
22. Dysbarism.

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## PHYSIOLOGY - II

**QP Code :1004**

Your answer should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary.

### LONG ESSAYS

**2 X 10 = 20 Marks**

1. Describe in detail the connections and functions of cerebellum. Add a note on its clinical disorders.4+4+2
2. Describe in detail Menstrual Cycle and its hormonal regulation. Add a note on contraception.4+3+3

### SHORT ESSAYS

**10 X 5 = 50 Marks**

3. Spermatogenesis and factors regulating it.
4. Mention refractive errors of the eye. How they are corrected?
5. Dark adaptation.
6. Explain the functions of middle ear.
7. Addison's disease.
8. Compare Upper Motor and Lower Motor neuron lesions.
9. Action potential.
10. Smooth muscle.
11. Pregnancy tests.
12. Excitation –contraction coupling.

### SHORT ANSWERS

**10 X 3 = 30 Marks**

13. Saltatory conduction.
14. Color vision.
15. Accommodation reflex.
16. Hypocalcemic tetany.
17. Growth Hormone.
18. Contraceptive pills.
19. Otolith organs.
20. Hemiplegia.
21. Muscle spindle.
22. Calmodulin.

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