QP Code:103004 Reg. No.:....

First BHMS Degree Examinations, February 2014 PHYSIOLOGY & BIOCHEMISTRY- PAPER I

Time: 3 Hours Max Marks: 100

Answer all the questions

• Draw diagrams wherever necessary

Essays: (2x10=20)

1. Describe the process of erythropoiesis and enumerate the factors required for the process.

2. Mention the properties of cardiac muscle and describe the stair-case phenomena with its mechanism.

Short notes: (10x5=50)

- 3. Plasma proteins
- 4. Differential count
- 5. Vital capacity
- 6. Surfactant
- 7. Ventricular systole
- 8. Loop of Henle
- 9. Functions of skin
- 10. Pupillary reflex
- 11. Renal threshold of glucose
- 12. Regulation of blood pressure

Answer briefly: (10x3=30)

- 13. Erythrocyte sedimentation rate (ESR)
- 14. T-lymphocytes
- 15. Dead space
- 16. Bainbridge reflex
- 17. Myopia
- 18. Juxtaglomerular apparatus
- 19. Normal body temperature
- 20. Rinnie's test
- 21. Respiratory quotient
- 22. Hemolytic disease of the newborn
