

**First BHMS Degree Supplementary Examinations, August 2013**

**PHYSIOLOGY & BIOCHEMISTRY- PAPER I**

**Time: 3 Hours**

**Max Marks: 100**

- **Answer all the questions**
- **Draw diagrams wherever necessary**

**Essays:** (2x10=20)

1. Describe the mechanism of respiration and explain its chemical regulation.
2. Describe clotting mechanism and list the clotting factors.

**Short notes:** (10x5=50)

3. Fetal circulation.
4. Define cardiac output and name the special junctional tissues.
5. Renal function tests.
6. Regulation of body temperature.
7. Erythropoiesis.
8. Blood groups.
9. Heart sounds.
10. Explain olfactory pathway.
11. Facilitated diffusion with examples.
12. Organ of corti with its diagram.

**Answer briefly:** (10x3=30)

13. Eosinophil
14. Rh typing
15. P wave
16. Cyanosis
17. Hypo and hypertonic solutions
18. Layers of retina
19. Auditory ossicles
20. Net filtration pressure
21. Sebaceous gland
22. Bleeding time