

**PHYSIOLOGY**

**(2012 - Scheme)**

**Time : 3 hrs**

**Max marks : 100**

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

**Essays:**

**(2+1+7+4= 14)**

1. Define Cardiac Cycle. Mention normal value. Explain different events of Cardiac Cycle. Add a Note on Heart Sound.
2. How is oxygen transported in blood. Explain the oxygen-haemoglobin dissociation curve. What are the factors affecting it.

**Short notes:**

**(4x8=32)**

3. Excitation - Contraction coupling in skeletal muscle.
4. Functions of Thalamus
5. Define Hypoxia. Describe types of Hypoxia
6. Effects of exercise on Cardio Vascular System

**Answer briefly:**

**(10x4=40)**

7. Refractive errors of vision.
8. Pain pathway.
9. Cutaneous circulation.
10. Peptic ulcer.
11. Plasma proteins.
12. Myxoedema.
13. Cardiac output- definition, normal value and determinants.
14. Functions of white blood cells (WBCs).
15. Hormonal basis of menstrual cycle.
16. Neuroglia- different types and functions.

\*\*\*\*\*