

(2012 - Scheme)**PHYSIOLOGY**

Time : 3 hrs

Max marks : 100

- Answer all questions
- Draw diagrams wherever necessary

Essays:**(2x14=28)**

1. Define cardiac cycle. Explain the different phases of cardiac cycle with pressure volume curves. Add a note on heart sounds. (2+6+3+3)
2. Explain the origin, course, termination, functions of dorsal column tract. (14)

Short notes:**(4x8=32)**

3. Define erythropoiesis. Explain its different steps.
4. Explain lung volumes and capacities with a spirogram.
5. Excitation - contraction coupling
6. Functions of cerebellum. Add a note on cerebellar ataxia

Answer briefly:**(10x4=40)**

7. Myasthenia gravis
8. Contraceptive methods in females
9. Spermatogenesis
10. Juxtaglomerular apparatus
11. Functions of plasma proteins
12. Phagocytosis
13. Functions of middle ear
14. Differences between simple and facilitated diffusion
15. ECG
16. Parkinson's disease