

(2012 - Scheme)

PHYSIOLOGY

Time : 3 hrs

Max marks : 100

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

Essays:

(2x14=28)

1. How will you classify nerve fibres. Explain the mechanism of transmission of impulses in nerve fibres.
2. Define arterial blood pressure and mention its normal value. What are the determinants of blood pressure. Discuss briefly about the regulation of blood pressure.

Short notes:

(4x8=32)

3. Resting membrane potential and its ionic basis in a neuron.
4. Indicate the different lung volumes and capacities on a spirogram. What is timed vital capacity and its clinical significance.
5. Functions of cerebellum.
6. Diabetes mellitus.

Answer briefly:

(10x4=40)

7. Normal electro cardio gram (ECG).
8. Intestinal motility.
9. Spermatogenesis and factors affecting it.
10. Juxta glomerular apparatus.
11. Parkinsonism.
12. Functions of liver.
13. Surfactant.
14. Anticoagulants.
15. Hypoxia- different types and its effects.
16. Functions of middle ear.
