

(2012 - Scheme)

PHYSIOLOGY

Time : 3 hrs

Max marks : 100

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

Essays:

(2x14=28)

1. Draw a neat labelled diagram of neuromuscular junction. Explain the steps of neuromuscular transmission.
2. Define Cardiac output. Explain its determinants. Add a note on shock .

Short notes:

(4x8=32)

3. Excitation - Contraction Coupling
4. Functions of Cerebellum
5. Lung volumes and capacities
6. Describe the pathway for pain

Answer briefly:

(10x4=40)

7. Functions of middle ear
8. Oxygen dissociation curve
9. Explain the waves and intervals in an electrocardiogram(ECG)
10. List the functions of plasma proteins
11. Name hormones of posterior pituitary gland and give one action for each
12. Wallerian degeneration
13. Juxtaglomerular apparatus
14. Functions of placenta
15. Properties of synapse
16. Explain referred pain with suitable examples.