

(2012 - Scheme)

PHYSIOLOGY

Time : 3 hrs

Max marks : 100

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

Essays:

(2x14=28)

1. Explain neuromuscular transmission in detail
2. Explain the neural and chemical regulation of respiration

Short notes:

(4x8=32)

3. Draw a labelled diagram of visual pathway
4. Explain the mechanism of breathing
5. Define cardiac output. explain any two methods of determining it.
6. Describe the composition and regulation of secretion of gastric juice
7. List the functions of hypothalamus and explain any one

Answer briefly:

(10x4=40)

8. Erythrocyte sedimentation rate
9. Define isotonic and isometric contraction and mention an example for each
10. Source and functions of pulmonary surfactant
11. Explain the movements of small intestine
12. Four clinical features of myxoedema
13. Properties of skeletal muscles
14. Complications of mismatched blood transfusion
15. Enumerate four physiological actions of insulin on metabolism
16. Tests to detect ovulation.
