

**(2012 - Scheme)****PHYSIOLOGY****Time : 3 hrs****Max marks : 100**

- Answer all questions
- Draw diagrams wherever necessary

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

1. Define blood pressure. Mention its normal values. Explain short term and long term mechanisms of its regulation (14)
2. Explain the mechanism of neuromuscular transmission. (14)

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

3. Explain the different types of oxygen transport mechanism in our body.
4. Define cardiac output. Explain the factors regulating it.
5. Explain the lung volumes and capacities with its normal values
6. List the hormones from posterior pituitary. Explain its functions.

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

7. Referred pain
8. Functions of testosterone
9. Role of baro-receptors in blood pressure regulation
10. Light reflex
11. Ventricular systole
12. Strength duration curve
13. Micturition reflex
14. Active transport
15. Functions of cerebrospinal fluid
16. Factors affecting glomerular filtration rate
