

**(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
2. Define and classify hypoxia. Add a note on artificial respiration

**Short notes:**

**(4x8=32)**

3. Surfactant
4. Functions of blood
5. Stages of spermatogenesis
6. Dark adaptation

**Answer briefly:**

**(10x4=40)**

7. Heart sounds
8. Name various lung volumes and capacities
9. Name the components of reflex arc
10. List the functions of platelets
11. Physiological classification of sensory receptors
12. Name four hormones of anterior pituitary gland and give one action for each
13. Define GFR and mention its normal value
14. Saltatory conduction
15. List the functions of saliva
16. Name the photoreceptors and mention its functions.

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