

First Year B.Sc Optometry Degree supplementary Examinations –  
November 2016

**GENERAL PHYSIOLOGY**  
**(2010 Scheme)**

**Time: 3 hrs**

**Max marks: 80**

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

**Essays**

**(2x15=30)**

1. Define cardiac output and stroke volume. Explain heterometric regulation of stroke volume
2. Describe the composition and functions of pancreatic juice and explain how it is regulated.

**Short notes**

**(6x5=30)**

3. Intra pleural pressure
4. Movements of small intestine
5. Micturition reflex
6. Functions of cerebellum
7. Determinants of blood pressure
8. Functions of middle ear

**Answer briefly**

**(5x2 = 10)**

9. Tidal volume
10. Arterial blood pressure
11. Stagnant hypoxia
12. Dark adaptation
13. Anticoagulants

**One word answer**

**(10x1 = 10)**

14. Normal body pH
15. Condition due to the deficiency of insulin in adult
16. Duration of one cardiac cycle
17. Normal RBC count in adult female
18. Receptor that appreciates taste sensation
19. The chief muscle of inspiration
20. Receptor for color vision
21. The three plasma proteins
22. The peripheral chemo receptors
23. The largest WBC in blood

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