

**First Year B.Sc Optometry Degree Supplementary Examinations  
April 2018**

**GENERAL PHYSIOLOGY**

**(2010 Scheme)**

**Time: 3 hrs**

**Max marks: 80**

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

**Essays (2x15=30)**

1. Name the thyroid hormones. Describe the synthesis and functions of thyroid hormones.
2. Define cardiac output and stroke volume. Explain heterometric regulation of stroke volume

**Short notes (6x5=30)**

3. Intra pleural pressure
4. Deglutition
5. Functions of middle ear
6. Differences between upper motor neuron lesion and lower motor neuron lesion
7. Anticlotting mechanisms in the body
8. Conducting system of heart

**Answer briefly (5x2 = 10)**

9. Phagocytosis
10. Referred pain
11. Functions of bile
12. Refractive errors of vision
13. Coronary circulation - special features

**One word answer (10x1 = 10)**

14. Commonest cause of conductive deafness
15. Visual defect due to the deficiency of vitamin A
16. Structural and functional unit of kidney
17. Condition that occurs due to the deficiency of thyroid hormones in adult female
18. Normal hemoglobin concentration in an adult
19. Name an anticoagulant
20. Normal pulse pressure
21. Normal platelet count in adult.
22. Hormone that increases blood calcium level
23. Receptor for dim light vision

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