

First Year B.Sc Optometry Degree supplementary Examinations –
November 2015

(2010 Scheme)
GENERAL PHYSIOLOGY

Time : 3 hrs

Max marks : 80

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

Essays

(2x15=30)

1. Mention the stages of erythropoiesis. Explain the factors influencing erythropoiesis. Add a note on anemia. (3+4+8=15)
2. Define cardiac output giving the normal values. Briefly explain the regulation of stroke volume. (2+3+10=15)

Short notes

(6x5=30)

3. Draw and label normal spirogram.
4. Composition and functions of pancreatic juice.
5. Actions of thyroid hormone.
6. Draw a nephron and label its parts.
7. Reflex action.
8. Errors of refraction.

Answer briefly

(5x2 = 10)

9. Near response.
10. Referred pain.
11. Bile salts.
12. Intra pleural pressure.
13. Gigantism

One word answer

(10x1 = 10)

14. Normal WBC count.
15. Chemical factors in blood influencing respiration.
16. Digestive enzyme present in saliva.
17. Normal value of GFR.
18. Name of the tract carrying crude touch sensation.
19. Name the auditory receptor.
20. Name the endocrine gland which secretes Insulin.
21. Normal blood calcium level.
22. Most important descending tract of spinal cord.
23. Closure of which valve causes first heart sound .
