

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

(2010 Scheme)
GENERAL PHYSIOLOGY

Time : 3 hrs

Max marks : 80

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

Essays

(2x15=30)

1. Name the hormones secreted by adrenal cortex. Discuss the actions of glucocorticoids. Add a note on cushing syndrome. **(3+6+6=15)**
2. Mention the basis of ABO blood group system. Discuss the importance of blood grouping. Add a note on erythroblastosis fetalis. **(3+4+8=15)**

Short notes

(6x5=30)

3. Draw and label normal ECG
4. CO₂ transport through blood
5. Deglutition
6. Concentration of urine
7. Functions of hypothalamus
8. Color vision

Answer briefly

(5x2 = 10)

9. Two special features of coronary circulation
10. Vital capacity
11. Functions of saliva
12. Visual acuity
13. Two functions of cerebellum

One word answer

(10x1 = 10)

14. Name the naturally occurring anticoagulant
15. Normal heart rate
16. Normal value of residual volume
17. Two sensations carried through posterior column pathway
18. Name the receptors for vision
19. Hormones secreted by posterior lobe of pituitary gland
20. Name the phases of cardiac cycle
21. Name the bile pigments
22. Name the plasma proteins
23. Normal blood sugar level.
