

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

**General Physiology
(2010 Scheme)**

Time: 3 hrs

Max marks: 80

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

Essays (2x15=30)

1. Describe the methods by which CO₂ is transported in blood
2. Name the coagulation factors. Explain the intrinsic and extrinsic mechanisms of coagulation

Short Notes (6x5=30)

3. Aqueous humor
4. Baroreceptor mechanism
5. Water reabsorption by kidney
6. Functions of hypothalamus
7. Hypoxia
8. Neuromuscular transmission

Answer Briefly (5x2=10)

9. Differences between upper motor neuron lesion and lower motor neuron lesion
10. Surfactant
11. Cretinism
12. Starling's forces for tissue fluid formation
13. Respiratory dead space

One-word answer (10x1=10)

14. Receptors for color vision
15. Normal platelet count
16. Normal serum bilirubin level
17. Capacity of gall bladder
18. Important mineralocorticoid secreted from adrenal cortex
19. Normal tidal volume
20. Inspiratory muscles
21. Hormone decreasing blood calcium level
22. Duration of cardiac cycle
23. Disease caused by Rh incompatibility during child birth
