

Q.P.Code 102013

Reg. No.:.....

First Year B.Sc Optometry Degree Examinations - September 2014

GENERAL PHYSIOLOGY

Time : 3 hrs

Max marks : 80

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

Essays

(2x15=30)

1. Define anemia. Describe the different stages of erythropoiesis. What are the factors affecting erythropoiesis (2+7+6=15)
2. Name the muscles of respiration. Explain how carbon dioxide is transported in blood (5+10=15)

Short notes

(6x5=30)

3. Regulation of gastric juice secretion
4. Tubular re-absorption
5. Difference between upper motor neuron and lower motor neuron lesions
6. Refractive errors of vision
7. Hormones regulating blood calcium level
8. Conducting system of heart

Answer briefly

(5x2 = 10)

9. Stroke volume
10. Vital capacity
11. Leucocytosis
12. Jaundice
13. Clotting time

One word answer

(10x1 = 10)

14. Normal respiratory rate in adult
15. pH of gastric juice
16. Normal ESR in adult male
17. Heart sound due to closure of atrio-ventricular valves
18. Hormones secreted by adrenal medulla
19. Pathway that carries pain sensation from the peripheral parts of the body
20. Disease due to the deficiency of dopamine in basal ganglia
21. Normal arterial blood pressure
22. Name an anticoagulant that can be used in vivo and in-vitro
23. Normal fasting blood sugar level
