## Q.P.Code 102013 Reg. No.:.....

## First B.Sc Optometry Degree Examinations -September 2013

## **GENERAL PHYSIOLOGY**

Time: 3 hrs Max marks: 80

- Answer all questions
- Draw diagram wherever necessary

Essays (2x15=30)

- 1. Name thyroid hormones. Explain the steps in the synthesis of thyroid hormones. Mention their physiological actions. (3+7+5=15)
- 2. Name the condition due to lesion in pyramidal tract. Describe the pathway of right pyramidal tract with the help of an illustrated diagram. (2+8+5=15)

Short notes (6x5=30)

- 3. Vital capacity and factors affecting it
- 4. Heart sounds
- 5. Glomerular filtration rate and factors affecting it
- 6. Oxygen transport in blood
- 7. Aldosterone escape
- 8. Regulation of salivary secretion

Answer briefly (5x2 = 10)

- 9. Physiological dead space
- 10. Packed cell volume
- 11. Residual volume
- 12. Cardiac output
- 13. Astigmatism

One word answer (10x1 = 10)

- 14. Normal clotting time
- 15. The enzyme present in saliva
- 16. Normal venous PO<sub>2</sub>
- 17. The part of brain that helps in initiation and coordination of movements
- 18. Hormone that lowers blood calcium level
- 19. The only pathway that doesn't have a relay in thalamus
- 20. Normal WBC count in adult
- 21. The heart sound that cannot be heard using stethoscope
- 22. Size of a normal RBC
- 23. The hormone that helps in the secretion of pancreatic juice rich in enzymes

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