

Reg. No.:

First Year B.Sc Optometry Degree Examinations – November 2016

General Physiology & Ocular Physiology

(2014 Scheme)

Time: 3 hrs

Max marks: 80

- Answer all questions
- Write section A and section B in separate answer books (32 Pages). Do not mix up questions from section A and section B.

Q P Code: 113013 Section A – General Physiology

Marks: 40

Essay: (10)

1. Briefly describe the digestion of proteins in the gastro-intestinal tract. What are the functions of proteins in the body

Short notes: (3x5=15)

2. Handling of glucose by the kidney.
3. Hypoxia.
4. Surfactant

Answer briefly: (5x2=10)

5. Functions of eosinophils.
6. NREM sleep
7. Cretinism
8. Smell pathway
9. Functions of middle ear

Fill in the blanks: (5x1=5)

10. Normal WBC count in a man
11. Normal value of hemoglobin in a young man.....
12. Normal rate of respiration
13. Normal daily urine output
14. The hormone mediating milk ejection is

Q P Code: 114013 Section B – Ocular Physiology

Marks: 40

Essay:

1. Describe the pupillary reflexes and the pathways concerned , with the help of diagrams. Write briefly on any two abnormal pupillary reflexes." - (3+4+3=10)

Short notes:

2. Mechanisms of formation of aqueous humour.
3. Laws of ocular motility
4. Dark Adaptation

Answer briefly: (5x2=10)

5. Electro retinogram
6. Measurement of intra-ocular pressure
7. Receptive field
8. Ishihara's chart.
9. Bitemporal hemianopia

Fill in the blanks: (5x1=5)

10. Macular sparing is seen in lesions.
11. Occlusion therapy is used to treat.....
12. Muller's cells are seen inmembrane.
13. Haloes are seen in
14. Double vision is called
