

Reg. No.:

First Year BSc Optometry Degree Examinations November 2015
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 lipids in the gastro-intestinal tract. What are the functions of lipids in the body

Short notes:

(3x5=15)

2. Oxygen dissociation curve
3. First and second heart sounds
4. Hypoxia

Answer briefly:

(5x2=10)

5. Sodium handling by kidneys.
6. Functions of cerebellum
7. Vital capacity
8. Pain pathway
9. Functions of liver

Fill in the blanks:

(5x1=5)

10. Normal stroke volume
11. Normal packed cell volume
12. Normal pulse rate
13. Normal glomerular filtration rate
14. The hormone mediating uterine contraction is

Q P Code: 114013 Section B – Ocular Physiology

Marks: 40

Essay:

(10)

1. Describe the mechanism of color vision by the brain.

Short notes:

(3x5=15)

2. Accommodation reflex
3. Vitamin A deficiency
4. Dark Adaptation

Answer briefly:

(5x2=10)

5. Astigmatism.
6. Saccades
7. Functions of pre corneal tear film
8. Grades of binocular single vision.
9. Homonymous hemianopia

Fill in the blanks:

(5x1=5)

10. Visual acuity is greatest in.....
11. Occlusion therapy is used to treat.....
12. Orientation columns are seen in
13. Inheritance pattern of color blindness is
14. Aqueous humor is secreted by
