

Reg. No.:

First Year B.Sc Optometry Degree supplementary Examinations – May 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. What is the normal heart rate and what are the factors affecting heart rate. How is it regulated.

Short notes: (3x5=15)

2. Intrinsic pathway of coagulation.
3. Surfactant.
4. Hypoxia

Answer briefly: (5x2=10)

5. Functions of platelets.
6. REM sleep
7. Dwarfism
8. Primary taste sensations
9. Oxytocin

Fill in the blanks: (5x1=5)

10. Normal value of fasting blood sugar.....
11. Normal arterial oxygen concentration
12. Normal resting membrane potential in a neuron
13. The 'first messenger' in endocrinology is
14. Normal RBC count in a man

Q P Code: 114013 Section B – Ocular Physiology

Marks: 40

Essay: (10)

1. Draw a cross section of the retina and mark the layers.

Short notes: (3x5=15)

2. Visual pathway
3. Dark Adaptation
4. Laws of ocular motility

Answer briefly: (5x2=10)

5. Innervation of ocular muscles
6. Accommodation pathway
7. Corneal hydration
8. Shirmer's test.
9. Blood-retinal barrier

Fill in the blanks: (5x1=5)

10. Saccades are regulated by.....
11. TColour vision is tested by_____
12. Complementary color is
13. Lateral inhibition helps to
14. Vestibular movements occur due to stimuli from
