

First Year B.Sc Optometry Degree Supplementary Examinations April 2018
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. Explain the transportation of oxygen by the blood. Add a note on oxygen – hemoglobin dissociation curve.

Short notes:**(3x5=15)**

2. Intrinsic regulation of cardiac output.
3. Composition and functions of saliva.
4. Metabolic actions of thyroxine.

Answer briefly:**(5x2=10)**

5. List the functions of basal ganglia.
6. What is referred pain. Give one example.
7. Innervation of urinary bladder.
8. Draw and label normal spirogram.
9. Define anemia. Mention two causes for anemia

Fill in the blanks:**(5x1=5)**

10. Normal RBC count in young adult male.....
11. Normal vital capacity is
12. Name one hypercalcemic hormone.....
13. Normal cardiac output (minute volume).....
14. Part of brain involved in emotion.....

Q P Code: 114013**Section B – Ocular Physiology****Marks: 40****Essay:****(10)**

1. Describe the changes taking place during accommodation reflex. Add a note on presbyopia

Short notes:**(3x5=15)**

2. Refractive errors of eye.
3. Field of vision.
4. Binocular vision

Answer briefly:**(5x2=10)**

5. Functions of cones.
6. Effect of vitamin A deficiency on vision.
7. Tests for color blindness.
8. Dark adaptation.
9. Measurement of visual acuity.y

Fill in the blanks:**(5x1=5)**

10. Field of vision is measured by using
11. The clinical condition in which intra ocular pressure increases.
12. Biconcave lens is used to correct.....
13. Approximate number of cones present in each eye is
14. Pathological blind spot is known as