

First Year B.Sc Optometry Degree Supplementary Examinations
October 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 composition and functions of gastric juice. Add a note on regulation of the secretion of gastric juice.

Short notes: (3x5=15)

2. Stages of erythropoiesis
3. Neural regulation of respiration.
4. Functions of cerebellum.

Answer briefly: (5x2=10)

5. Rh incompatibility.
6. Define cardiac output. Give the normal values.
7. Define glomerular filtration rate. Give the normal value.
8. Define reflex action. Give one example.
9. What is goiter. Mention the causes

Fill in the blanks: (5x1=5)

10. One type of hypoxia which leads to cyanosis.....
11. The 1st heart sound is caused due to closure of
12. Normal tidal volume is
13. Jaundice is caused due to excess presence of.....
14. The antibodies found in plasma of blood group O positive

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

1. Explain the photo transduction taking place when visual receptors are stimulated. Add a note on role of vitamin A in vision

Short notes: (3x5=15)

2. Pathway for pupillary light reflex.
3. Composition and functions of aqueous humour.
4. Role of extrinsic muscles in the movement of eyes

Answer briefly: (5x2=10)

5. Cataract
6. Argyll Robertson pupil
7. Squint
8. Protanopia
9. Light adaptation

Fill in the blanks: (5x1=5)

10. Hypermetropia is corrected by
11. Visual acuity is measured by.....
12. Weakness to green colour is known as
13. The refractive index of human lens is about.....
14. Intraocular pressure is measured with the help of.....
