

First Year B.Sc Optometry Degree Supplementary Examinations April 2024

Paper II – Physiology
(2016 Scheme)

Time: 3 hrs

Max marks: 80

- Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space
- Answer all parts of a single question together • Leave sufficient space between answers • Draw table/diagrams/flow charts wherever necessary
- Write section A and section B in separate answer books. Do not mix up questions from section A and section B.

Q P Code: 123013

Section A – General Physiology

Marks: 40

Essay:

(10)

1. Explain the importance of blood groups. Describe the blood transfusion reactions.

Short notes:

(3x5=15)

2. Referred pain.
3. Importance of lung volumes and capacities.
4. Long term regulation of blood pressure.

Answer briefly:

(5x2=10)

5. Artificial respiration.
6. Functions of saliva.
7. Functions of oxytocin.
8. Parkinsonism.
9. Colour vision.

One-word answer:

(5x1=5)

10. Contraction of which smooth muscle leads to micturition
11. Primary somatosensory area is Brodmann's area no:
12. Contraction of which ear muscles protects from loud sounds
13. An example of neuroendocrine reflex is
14. Normal value of cardiac output is

Q P Code: 124013

Section B – Ocular Physiology

Marks: 40

Essay:

(10)

1. Normal intraocular pressure, its importance and maintenance.

Short notes:

(3x5=15)

2. Importance of lacrimation.
3. Presbyopia.
4. Dark adaptation.

Answer briefly:

(5x2=10)

5. Smooth pursuit.
6. Testing colour vision.
7. Fovea centralis.
8. Miosis.
9. Near response.

One-word answer:

(5x1=5)

10. Fundus of eye is examined using an instrument called
11. Photosensitive pigment in rods is called
12. Nyctalopia is a condition arising due to deficiency of
13. Bending of light rays as they pass from one medium to another is called
14. Visual fields are mapped using an instrument called
