

**First Year B.Sc Optometry Degree Regular/Supplementary Examinations
November 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. With the help of a flowchart, describe the coagulation pathways

Short notes:

(3x5=15)

2. Enlist the functions of basal ganglia
3. Deglutition reflex
4. Oxygen transport in the blood

Answer briefly:

(5x2=10)

5. Components of Juxta glomerular apparatus
6. Enlist any four functions of middle ear
7. Actions of growth hormone
8. Rh incompatibility
9. Heart sounds

One-word answer:

(5x1=5)

10. Intrinsic factor of Castle is secreted from cells of stomach
11. The type of hypoxia occurring at high altitude is
12. Normal pacemaker of human heart is
13. The sensory tract carrying two-point discrimination is
14. Normal glomerular filtration rate is

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Section B – Ocular Physiology

Marks: 40

Essay:

(10)

1. Define accommodation. With the help of a diagram, describe the pathway of accommodation

Short notes:

(3x5=15)

2. Errors of refraction
3. Binocular vision
4. Phototransduction

Answer briefly:

(5x2=10)

5. Tests for colour vision
6. Rhodopsin
7. Mention the components of tear film
8. Glaucoma
9. Effect of lesion of optic chiasma in visual pathway

One-word answer:

(5x1=5)

10. Field of vision is accurately measured using
11. The most metabolically active layer of cornea is
12. Pathological blind spot is called
13. The most sensitive part of retina is
14. The condition in which lens become opaque is called
