

First Year B.Sc Optometry Degree Supplementary Examinations
March (November), 2020
General Physiology & Ocular Physiology
(2014 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 (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. Define anemia. Describe the classification of anemia

Short notes:

(3x5=15)

2. Composition and functions of pancreatic juice

3. Chemical regulation of respiration

4. Special features of coronary circulation

Answer briefly:

(5x2=10)

5. Micturition reflex

6. Functions of cerebellum

7. Taste pathway

8. Cretinism

9. Second stage of deglutition

Fill in the blanks:

(5x1=5)

10. Normal white blood cell count is

11. is necessary for absorption of vitamin B₁₂ from small intestine

12. Surfactant is produced by cells of the lungs

13. Normal value of glomerular filtration rate is

14. Normal serum calcium level is

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Section B – Ocular Physiology

Marks: 40

Essay:

(10)

1. Describe the steps in phototransduction. Add a note on the importance of vitamin A in vision

Short notes:

(3x5=15)

2. Visual acuity

3. Accommodation pathway

4. Visual cortex

Answer briefly:

(5x2=10)

5. Myopia

6. Colour blindness

7. Intraocular pressure

8. Optic chiasma

9. Stereopsis

Fill in the blanks:

(5x1=5)

10. The point on retina free of rods is known as

11. The photopigment in cones is

12. The correction of astigmatism is by using lens

13. layer of tear film is secreted by meibomian gland

14. The structure with greatest refractive index in the eye is
