

First Year B.Sc Optometry Degree Supplementary Examinations April 2024

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:

1. Describe the composition and function of Pancreatic juice. Add a note on regulation of secretion of pancreatic juice (4+3+3) (3x5=15)

Short notes:

2. Intrinsic mechanism of blood coagulation.
3. Determinants of blood pressure
4. Physiological actions of thyroid hormones

Answer briefly: (5x2=10)

5. Tidal Volume
6. Cardiac output
7. ESR
8. Cretinism
9. Glomerular filtration rate

Fill in the blanks: (5x1=5)

10. The condition in which growth hormone secretion increased after puberty is.....
11. Normal respiratory rate in adult is
12. Normal platelet count is
13. Total duration of cardiac cycle is
14. Bile is produced in

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Section B – Ocular Physiology

Marks: 40

Essay:

1. Describe theories of colour vision. Write a note on colour blindness (7+3)

Short notes: (3x5=15)

2. Binocular vision
3. Aqueous humour
4. Compare Rods and Cones

Answer briefly: (5x2=10)

5. Colour blindness
6. Role of Vitamin A in vision
7. Layers of Retina
8. Near response
9. Strabismus

Fill in the blanks: (5x1=5)

10. The condition in which pupillary light reflex lost and accommodation reflex present is
11. Astigmatism is corrected using
12. Structure with highest refractive index in eye is
13. Visual acuity is assessed using
14. Pigment responsible for dimlight vision is
