

**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:****(10)**

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 .....

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

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 .....

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