

Reg. No.: .....

**First Year B.Sc Optometry Degree Supplementary Examinations**  
**January 2023**  
**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. Name the main respiratory centres. Explain neural regulation of respiration

**(2+8)**

**Short notes:**

**(3x5=15)**

2. Conducting system of heart
3. Corticospinal/Pyramidal tract
4. Oxygen dissociation curve

**Answer briefly:**

**(5x2=10)**

5. Arterial blood pressure
6. Plasma proteins
7. Deglutition reflex
8. Neuro endocrine reflex
9. Draw and label juxtaglomerular apparatus

**Fill in the blanks:**

**(5x1=5)**

10. Cushing's syndrome occurs due to increased secretion of .....

11. Normal serum bilirubin level is .....

12. Hypoxia occurs due to deficiency of oxygen in .....

13. ADH helps in reabsorption of water in .....of nephron

14. Normal WBC count is .....

**Q P Code: 114013**

**Section B – Ocular Physiology**

**Marks: 40**

**Essay:**

**(10)**

1. Define Binocular vision. Write briefly on grades of Binocular vision and mention one test to access the grades .

**(3+5+2)**

**(3x5=15)**

**Short notes:**

2. Dark adaptation
3. Refractive errors of vision
4. Accommodation reflex

**Answer briefly:**

**(5x2=10)**

5. Retinal detachment
6. Tests for colour vision
7. Bitemporal Hemianopia
8. Cataract
9. Draw and label a rod and a cone

**Fill in the blanks:**

**(5x1=5)**

10. Normal dark adaptation time is .....

11. Presbyopia occurs due to loss of .....of lens

12. Near point of vision is .....cm.

13. Hypermetropia is corrected using .....lens.

14. Aqueous humour is produced by .....

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