

First Year B.Sc Optometry Degree Regular/Supplementary Examinations
August 2021
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. Explain the stages of erythropoiesis. List the factors affecting erythropoiesis

Short notes:**(3x5=15)**

2. Composition and functions of saliva
3. Oxygen transport through blood
4. Normal ECG – waves, segments and intervals

Answer briefly:**(5x2=10)**

5. Enterohepatic circulation
6. Stretch reflex
7. Hyperthyroidism
8. Functions of insulin
9. Glucose reabsorption from kidney

Fill in the blanks:**(5x1=5)**

10. Plasma protein mainly responsible for osmotic pressure of blood is
11. Normal duration of cardiac cycle is
12. Tract which carries temperature sensation from body is
13. Normal platelet count is
14. Main muscle of inspiration is

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

1. Describe the production, composition, drainage and functions of aqueous humour. Add a note on glaucoma

Short notes:**(3x5=15)**

2. Pupillary reflexes
3. Dark adaptation
4. Colour vision

Answer briefly:**(5x2=10)**

5. Nystagmus
6. Hemianopia
7. Functions of cones.
8. Presbyopia
9. Macular sparing

Fill in the blanks:**(5x1=5)**

10. Most sensitive part of retina having maximum visual acuity is
11. Hypermetropia is corrected with the help oflens
12. Earliest visual abnormality in vitamin A deficiency is
13. Visual acuity for distant vision is tested with chart
14. Dioptric power of human eye is _____
