

First Year B.Sc Optometry Degree Supplementary Examinations May 2023
Paper II – Physiology
(2016 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. Do not mix up questions from section A and section B.

Q P Code: 123013**Section A – General Physiology****Marks: 40****Essay:****(10)**

1. Describe the transport of oxygen in blood. Discuss factors affecting oxygen hemoglobin dissociation curve.

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

2. What is cardiac output. Explain the factors affecting cardiac output.
3. Intrinsic pathway of coagulation.
4. Pyramidal and extra pyramidal systems.

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

5. Regulation of pancreatic secretion.
6. What is reflex arc.
7. Cretinism.
8. Importance of blood groups.
9. Diabetes insipidus.

One-word answer:**(5x1=5)**

10. Normal Glomerular filtration rate is
11. Pacemaker of the human heart is
12. % of Glucose reabsorption occurs in proximal convoluted tubule.
13. Cell organelle which provides energy, so is known as power house of any cell is
14. Classical change in electrocardiogram in a case of myocardial infarction is

Q P Code: 124013**Section B – Ocular Physiology****Marks: 40****Essay:****(10)**

1. How is colour vision tested. Discuss the abnormalities of colour vision.

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

2. Consensual light reflex.
3. Intra ocular fluids.
4. Photo transduction.

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

5. Near point of vision.
6. Strabismus.
7. Precorneal tear film.
8. Diplopia.
9. Stereopsis.

One-word answer:**(5x1=5)**

10. Abnormal pupillary response where light reflex is lost but accommodation reflex is present is called
11. Field defect caused by a lesion at optic chiasma is
12. Correction of Astigmatism is done using lens.
13. Rod free portion of retina having maximal visual acuity is
14. Average normal intraocular pressure ranges from to
