

Reg. No.:

First Year B.Sc Optometry Degree Supplementary Examinations
October 2019
General Physiology & Ocular Physiology
(2014 Scheme)

Time: 3 hrs

Max marks: 80

- Answer all questions
- 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. Define cardiac cycle. Explain the mechanical changes taking place in the heart during cardiac cycle. Add a note on left ventricular pressure changes during cardiac cycle.

Short notes:

(3x5=15)

2. Composition and functions of pancreatic juice.
3. Intrinsic mechanism of blood coagulation.
4. Micturition reflex.

Answer briefly:

(5x2=10)

5. Draw and label a neuron.
6. List the functions of cerebrospinal fluid.
7. Define vital capacity with its normal value.
8. What is acromegaly. List the major symptoms.
9. Draw a normal electrocardiogram

Fill in the blanks:

(5x1=5)

10. Normal renal blood flow per minute.....
11. Antigens present in blood group AB⁺ve are.....
12. pH of gastric juice is
13. Hormones secreted by posterior pituitary are.....
14. Disorder related to basal ganglia.....

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Section B – Ocular Physiology

Marks: 40

Essay:

(10)

1. Describe the visual pathway. Add a note on effects of lesion at different sites of visual pathway

Short notes:

(3x5=15)

2. Photochemistry of vision.
3. Pathways for near response.
4. Theory of color vision

Answer briefly:

(5x2=10)

5. Compare rods and cones.
6. Myopia.
7. Blind spot.
8. Field of vision.
9. Glaucoma

Fill in the blanks:

(5x1=5)

10. One test to detect color blindness.....
11. Normal intraocular pressure is
12. Approximate number of cones presenting in eye is
13. Astigmatism is corrected by using
14. Muscles which help in the convergence of eye balls
