

Reg. No.:

First Year B.Sc Optometry Degree Supplementary Examinations
April 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. Describe regulation of respiration. Add a note on periodic breathing.

Short notes:

(3x5=15)

2. Heart sounds
3. Intrinsic mechanism of blood coagulation
4. Functions of bile and its regulation of secretions.

Answer briefly:

(5x2=10)

5. Anticoagulants
6. Peristalsis
7. Oxygen dissociation curve
8. Referred pain
9. Hormones regulating blood calcium level

Fill in the blanks:

(5x1=5)

10. Plasma protein that helps coagulation of blood is
11. Normal Hb % in adult man is
12. Normal urine output per day
13. HCl is secreted by cells
14. Normal PR interval is

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Section B – Ocular Physiology

Marks: 40

Essay:

(10)

1. Describe the visual pathway and effects of its lesion

Short notes:

(3x5=15)

2. Mechanism of accommodation
3. Depth perception
4. Refractive principles applied to human ocular lens

Answer briefly:

(5x2=10)

5. Trichromatic theory of color vision
6. Visual pigments
7. Parallax error
8. Astigmatism
9. Optical system of the human eye

Fill in the blanks:

(5x1=5)

10. Refractive index of human lens is
11. Thalamic nucleus related to vision is
12. Light vision is a function of
13. Visible range of wavelength of human eye is
14. Normal intraocular pressure of human eye is
