

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. Briefly describe secretion of hydrochloric acid. How gastric secretion is regulated.

Short notes: (3x5=15)

2. Glomerular filtration
3. Chemical regulation of respiration
4. Differences between UMN (Upper Motor Neuron) and LMN (Lower Motor Neuron)

Answer briefly: (5x2=10)

5. Blood groups
6. Pancreatic juice
7. Vital capacity
8. Polysynaptic reflex
9. Gigantism

Fill in the blanks: (5x1=5)

10. Normal platelet count in man is
11. Normal heart rate of man is
12. Hormone that regulates blood glucose is
13. Resting membrane potential of nerve is
14. Hormone that helps in milk production is

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

1. Define accommodation and describe its mechanism. Trace the pathway of accommodation with the help of a diagram.

Short notes: (3x5=15)

2. Convergence and its anomalies
3. Errors of refraction
4. Photochemistry of vision.

Answer briefly: (5x2=10)

5. Perimetry
6. Neurons of retina
7. Scotoma
8. Light adaptation
9. Visual acuity

Fill in the blanks: (5x1=5)

10. of the eye is avascular.
11. Normal refractive power of human eye is
12. Astigmatism is corrected by
13. has the highest visual acuity
14. Night blindness is due to deficiency of
