

## 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) lesions."

**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 .....

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