

OPHTHALMOLOGY

PAPER-I

TIME: 3 HOURS
MAX. MARKS: 100

OPH/J/18/26/I

IMPORTANT INSTRUCTIONS

- This question paper consists of 10 questions divided into Part “A” and part “B”, each part containing 5 questions.
- Answers to questions of part A and part B are to be strictly attempted in separate answer sheet(s) and the main + supplementary answer sheet(s) used for each part must be tagged separately.
- Answers to question(s) of Part A attempted in answer sheet(s) of part B or Vice versa shall not be evaluated.
- Answer sheets of Part A and Part B are not to be tagged together.
- Part A and Part B should be mentioned only on the covering page of the respective answer sheets.
- Attempt all questions in order.
- Each question carries 10 marks.
- Read the question carefully and answer to the point neatly and legibly.
- Do not leave any blank pages between two answers.
- Indicate the question number correctly for the answer in the margin space.
- Answer all the parts of a single question together.
- Start the answer to a question on a fresh page or leave adequate space between two answers.
- Draw table/diagrams/flowcharts wherever appropriate.

Write short notes on:

PART A

1. a) Anatomical structure of upper eyelid. 5+3+2
b) Its blood supply, venous drainage & lymphatic drainage.
c) Clinical implications of its blood supply.
2. a) Anatomy of the medial wall of orbit. 5+3+2
b) What is its importance in Orbital decompression?
c) What is the most common cause of severe bleed during external DCR?
3. a) Detailed structure of retinal rods and cones. 6+2+2
b) Their distribution over the retina.
c) Implications in vision quality with rod and cone dysfunction.
4. a) What are mechanisms of aqueous formation? 5+3+2
b) Detailed anatomy of the trabecular meshwork and Schlemm canal.
c) Optical principle to see the angle structures.
5. a) What is a “Randomized Control Trial”? 3+3+4
b) What is randomization and why is it required?
c) What are confounding factors in a study and how to avoid them?

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PAPER-I

Please read carefully the important instructions mentioned on Page '1'

- Answers to questions of Part A and part B are to be strictly attempted in separate answer sheets and the main + supplementary answer sheets used for each part must be tagged separately.
- Answers to question(s) of Part A attempted in answer sheets of Part B or vice versa shall not be evaluated.

PART B

6. a) What is anisocoria and indications for its investigation? (1+3)+(4+2)
b) Give the physiological basis and causes of Light-near reflex dissociation.
7. a) Name 3 commonly used Ophthalmic preservatives in topical medication. 1+4+5
b) What are the adverse effects of preservatives in ophthalmic medications?
c) What are the various means of preventing these adverse effects?
8. a) What is AC:A ratio for convergence? 1+5+4
b) What are the methods of measuring it?
c) Briefly discuss the disorders resulting from altered AC:A ratio.
9. a) What is the principle of Optical Coherence Biometry? 2+2+6
b) Which Ophthalmic equipment uses this principle?
c) What are the advantages and disadvantages of this type of biometry?
10. a) Metabolism of the lens in the eye. 4+6
b) How does the lens maintain transparency?
