

**OPHTHALMOLOGY**  
**PAPER-I**

TIME: 3 HOURS  
MAX. MARKS: 100

OPH/J/19/26/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) Anatomy and blood supply of retina. 4+4+2  
b) Anatomy and histology of macula.  
c) Enumerate macular function test.
2. a) Mechanism of corneal transparency. 5+5  
b) Pharmacotherapy of alkali corneal injury.
3. a) Enumerate the microbiological techniques available to 5+5  
diagnose and identify the cause of intraocular infection.  
b) Discuss the advantages and disadvantages of each technique.
4. a) Classify pharmacological agents available to treat 4+3+3  
glaucoma.  
b) Mechanism of action of topical agents.  
c) Adverse effects and contraindications of systemic agents.
5. a) Enumerate various types of LASERs used in ophthalmic 2+6+2  
practice.  
b) Uses of LASERs in ocular disorders.  
c) Safety precautions in LASER delivery.

P.T.O.

**OPHTHALMOLOGY**  
**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**

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|-----|--|-------|
| 6.  | a) Visual pathway and its blood supply.                  | 5+5   |
|     | b) Anatomy of lateral geniculate body and visual cortex. |       |
| 7.  | a) Development of the lens.                              | 3+2+5 |
|     | b) Enumerate congenital abnormalities of lens.           |       |
|     | c) Factors contributing to genesis of cataract.          |       |
| 8.  | a) Supranuclear control of ocular movements.             | 5+2+3 |
|     | b) Grades of binocular vision.                           |       |
|     | c) Tests for evaluation of binocular vision.             |       |
| 9.  | a) Genetics of retinoblastoma.                           | 5+5   |
|     | b) Histopathology of retinoblastoma.                     |       |
| 10. | a) Role of immunosuppressive drugs in ocular disorders.  | 5+5   |
|     | b) Gene therapy.   |       |

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