

OPHTHALMOLOGY
PAPER-I

TIME: 3 HOURS
MAX. MARKS: 100

OPH/J/20/26/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. Electrophysiological basis of ERG and EOG and its clinical applications. 5+5
2. a) Neural pathway for tear secretion by lacrimal gland. 3+3+4
b) Tests for evaluating tear film.
c) Etiopathogenesis of Sjogren's syndrome.
3. a) Anatomy of angle of anterior chamber. 5+5
b) Principle of gonioscopy and various types of gonioscopes.
4. a) Anatomy, 3+2+5
b) Biochemical composition, and
c) Functions of retinal pigment epithelium.
5. Enumerate two immunosuppressive agents used in allergic eye diseases. Elaborate their mechanism of action and side effects. 10

P.T.O

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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) Draw a labelled diagram to describe the anatomy of macula.
b) What are macular function tests?
c) What is their clinical significance? | 3+4+3 |
| 7. | What are prisms? Describe their clinical and therapeutic applications in ophthalmology. | 3+7 |
| 8. | a) Describe microscopic structure of cornea.
b) Discuss factors responsible for maintaining transparency of cornea. | 4+6 |
| 9. | a) Macro and Micro anatomy of the vitreous.
b) Discuss vitreous substitutes in detail. | 5+5 |
| 10. | a) Clinical manifestation and complications of myopia.
b) Surgical correction of myopia. | 5+5 |
