



OPHTHALMOLOGY

PAPER – IV

OPH/J/14/26/IV

Time : 3 hours

Max. Marks : 100

Important instructions:

- 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.

1. a) Enumerate the differential diagnosis of a pigmented iris lesion. 6+4
b) Write a short note on histopathology of choroidal melanoma.
2. Classify corneal dystrophies. Describe the histopathological changes of stromal dystrophies and specific stains used in each. 4+6
3. Discuss the differential diagnosis of retinoblastoma. Discuss the factors which affect the genetic counseling for patients of retinoblastoma. 5+5
4. What is blade-free cataract surgery? What are its advantages over conventional phaco-emulsification? What are its disadvantages? 2+4+4
5. Describe technique, advantages and disadvantages of topical, retrobulbar block, peribulbar block and facial block anaesthesia for ocular surgery. 2+3+3+2
6. Discuss the differential diagnosis, investigations and management in a 22 year male with unilateral, profound and sudden diminution of vision. 4+2+4
7. a) Classify various ocular lubricating agents used in the management of dry eye disease. 4+2+4
b) What is the role of preservatives used in them?
c) What are the various types of preservatives used in lubricating agents?
8. a) Describe in brief various aberrations of the optical system of the eye. 5+5
b) What are the various corrective mechanisms built in the eye to overcome these?