

FINAL EXAM  
JUNE 2014

NATIONAL BOARD OF EXAMINATIONS

**OPHTHALMOLOGY****PAPER – I**

OPH/J/14/26/I

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.

Write short notes on:

1. a) How will you investigate a case of Nystagmus? 4+2+4  
b) What are the clinical conditions in which Nystagmus is seen?  
c) Management of Nystagmus.
2. a) What is the principle of Indirect Ophthalmoscopy (IDO)? 2+4+4  
b) What are the various lenses used for doing IDO and what are their advantages and disadvantages?  
c) Describe the lenses used for viewing the central retina on a slit lamp biomicroscope.
3. a) Orbital spaces and their applied importance 5+5  
b) Superior orbital fissure: Anatomy and associated clinical features
4. Describe anatomy and lesions of optic tracts, chiasma and optic radiations. 3+4+3
5. a) What are multifocal IOLs? 2+4+4  
b) What are their types and their advantages?  
c) What special surgical considerations will be utilized when implanting a multifocal IOL?
6. a) Describe in brief the embryological evolution of retina? 4+4+2  
b) What are the differences between rods and cones?  
c) What is the importance of IS/OS junctions?
7. a) Describe various pathways of glucose metabolism in the lens. 2+4+4  
b) What metabolic abnormalities cause diabetic and galactosaemic cataract?  
c) Describe briefly various congenital and developmental anomalies of lens.