Write short notes on:

1. a) How will you investigate a case of Nystagmus?  
   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)?  
   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  
   b) Superior orbital fissure: Anatomy and associated clinical features  

4. Describe anatomy and lesions of optic tracts, chiasma and optic radiations.  

5. a) What are multifocal IOLs?  
   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?  
   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.  
   b) What metabolic abnormalities cause diabetic and galactosaemic cataract?  
   c) Describe briefly various congenital and developmental anomalies of lens.