

P40/HSC112/EE/20160520

Time : 3 Hours

Marks : 80

Instructions :

1. All Questions are Compulsory.
 2. Each Sub-question carry 5 marks.
 3. Each Sub-question should be answered between 75 to 100 words. Write every questions answer on separate page.
 4. Question paper of 80 Marks, it will be converted in to your programme structure marks.
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1. Solve any **four** sub-questions.
 - a) What are types of lenses? Explain with diagram. 5
 - b) Discuss the cardinal points in optical system of eye. 5
 - c) Define hypermetropia and write its sign and symptoms. 5
 - d) Write short note on ophthalmic lens. Explain how to identify the lens power. 5
 - e) Write the different charts used to record near vision. Write short note on procedure to record near vision. 5

2. Solve any **four** sub-questions.
 - a) Describe the formation of retinal images. 5
 - b) Define Myopia and its etiology. 5
 - c) Write in detail vision tests in 1-2 years children. 5
 - d) Write down signs of pseudophakia. 5
 - e) Describe clinical picture of astigmatism and its treatment. 5

3. Solve any **four** sub-questions.
- a) Write note on refractive errors caused due to abnormal position of lens. 5
 - b) Explain in details condition presbyopia and its treatment. 5
 - c) Write short note on the wavelength of visible rays. 5
 - d) Write short note on retinoscopy. 5
 - e) Write in detail Snellen's fraction. 5
4. Solve any **four** sub-questions.
- a) Define light. Write any five properties of light. 5
 - b) Write in short different types of astigmatism. 5
 - c) Describe factors affecting visual acuity. 5
 - d) With help of diagram, cardinal points of human eye's optical system. 5
 - e) A male patient, 35 years of age complaining difficulty in near, along with headache. Write down general evaluation procedure you will carry out in clinic. 5

