P26/HSC150/EE/20160518

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.

1. Solve any **four** sub-questions.

   a) Define Hypermetropia with diagram. Write down clinical types of hypermetropia. 5

   b) Write down note on Diagnostic tests for Anisometropia and its treatment. 5

   c) What are Presbyopia? Write different modes of treatment in Presbyopia. 5

   d) Define Amblyopia. Write in short classification of Amblyopia. 5

   e) Discuss the reflection of light at spherical mirror. 5

2. Solve any **four** sub-questions.

   a) Explain the term Sturm Conoid. 5

   b) Write down different ways of Quantitative measurement of light. 5

   c) Define Diffraction. Write down types of diffraction. 5

   d) Write short note on Low contrast test charts. 5

   e) Explain Cornea as component of eyes optical system. 5

3. Solve any **four** sub-questions.

a) Explain different axes of eyes. 5

b) Define : 5

i) Accommodation

ii) Far point of Accommodation

iii) Near point of Accommodation

iv) Range of Accommodation

v) Amplitude of Accommodation

c) List the grades of BSV. Write down advantages of BSV. 5

d) What is principle of retinoscopy? Explain its illumination stage. 5

e) Solve following toric transposition. Add note which tool you will use to prepare this power –2.00 / –2.00 ∗ 170 (base +6.00) 5

4. Solve any **four** sub-questions.

a) Explain the term Purkinje images. 5

b) As per Gullstrand's data write note on Radii of curvature of refracting surface. 5

c) Derive thin lens formula. (Assume Galelion equation) 5

d) Explain clinical types and symptoms of aniseikonia. 5

e) Define Light. Add a note on properties of light. 5

✦✦✦✦✦✦✦