

## P26/HSC156/EE/20160524

Time : 3 Hours

Marks : 80

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### 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 is importance of Amsler's grid test in low vision evaluation? Also give examples of two conditions in which it is performed. 5
  - b) Explain the terms : 5
    - i) Magnification by approach
    - ii) Contrast sensitivity
  - c) Write in brief about history taking in 12 year old boy having low vision since last 2 years. 5
  - d) Define nystagmus and write etiology of nystagmus. 5
  - e) Write a note on Fresnel prisms. 5
  
2. Solve any **four** sub-questions.
  - a) Explain construction of Keplerian telescope. 5
  - b) Compare hand held magnifier Vs. Stand magnifier. 5
  - c) Enlist various non-optical low vision aids. Explain any two of them. 5
  - d) What are advantages of Log MAR visual acuity in low vision patients. 5
  - e) Define Low vision. Add a note on Classification of visual field defects. 5

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

- a) Calculate magnification and near addition required for a patient having vision BE  $-1.50$ Ds 6/36, N24. He wants to read 6/9, N6. 5
- b) A 67 year old female patient comes to you having refraction BE  $-2.00/-1.00 \times 90$  V/A Log MAR 1.0. She is diagnosed for dry ARMD in both eyes about 5 years back. What all diagnostic tests you will perform this patient? 5
- c) Describe visual field enhancers in short. 5
- d) Define contrast and contrast sensitivity. Name the charts to test contrast sensitivity. Also name two conditions in which contrast is affected. 5
- e) Explain terms : 5
  - i) Disability glare
  - ii) Spherical aberration

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

Based on given case, answer the following questions :

A 53 year old male patient comes to you with a complaint of inability to see accounts entries in his office, maintained manually and electronically. He is operated for retinal detachment in Right eye 3 years ago. His present refraction is

OD  $-2.50 / -2.50 \times 45$  Log Mar 1.0;

OS  $-1.50 / -2.00 \times 135$  Log Mar 0.6

- a) Write history recording of this patient. 5
- b) What are different optical low vision aids that can help this patient? 5
- c) How will you rehabilitate this patient? 5
- d) What are different non-optical and electronic low vision aids that can be prescribed for this patient? 5
- e) Write in brief about various diagnostic tests that are performed for this patient. 5

