CS/B.OPTM/SEM-5/BO-505/2012-13

2012
LOW VISION AID & VISUAL REHABILITATION

Time Allotted : 3 Hours   *Full Marks :* 70

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

GROUP – A
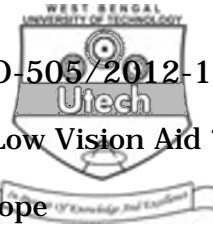### (Multiple Choice Type Questions)

1.   Choose the correct alternatives for any *ten* of the following :
                                                              10 × 1 = 10

   i)   Bar magnifier increases the object size in

   a)   vertical meridian   b)   horizontal meridian

   c)   in both meridians   d)   none of these.

   ii)   Angular magnification is the principle of

   a)   stand magnifier   b)   CCTV

   c)   bar magnifier   d)   Galilean telescope.

iii) Testing distance for lighthouse near acuity card is

    a) 1 m
    b) 40 cm

    c) 33 cm
    d) none of these.

iv) Patient suffering from retinitis pigmentosa has initially field of vision loss in

    a) central
    b) peripheral

    c) arcuate
    d) temporal.

v) Diopteric value of a plus lens magnifier of 6X magnifier is

    a) 12 D
    b) 24 D

    c) 18 D
    d) 20 D

vi) Which of the following is not used as a LVA in albinism ?

    a) Dense sunglasses

    b) Visors

    c) Pinhole contact lenses

    d) Bright illumination.

vii) Number of letters present in each row of a typical log Mar chart is

    a) 3
    b) 5

    c) 6
    d) 10.

viii) Which of the following is a Non-Optical Low Vision Aid ?

    a)   Euthyscope   b)   Typoscope

    c)   Visuoscope   d)   Projectoscope.

ix) The ideal Test Distance for MN Read Chart is

    a)   16 cm   b)   33 cm

    c)   1 metre   d)   40 cm.

x) Colour Vision Test with Ishihara chart should classically be done in

    a)   incandescent light   b)   fluorescent light

    c)   good daylight   d)   tungsten bulb light.

xi) Pinhole contact lens cannot be used as LVA in

    a)   albinism

    b)   aniridia

    c)   central corneal leucoma

    d)   all of these.

GROUP – B

(Short Answer Type Questions)

Write short noes on any *three* of the following.

$$3 \times 5 = 15$$

2. Log Mar Chart.

3. Fresnel Lenses.

4. Glare Control Device.

5. Reverse Telescope.

GROUP – C

(Long Answer Type Questions)

Answer any *three* of the following.   3 × 15 = 45

6. What is magnification ? Briefly describe about Relative Size Magnification with suitable diagram & example. Write in brief a comparative analysis of advantages and disadvantages of Galilean & Keplerian Telescope.

   What simple modification one can make on a Keplerian Telescope to make it more acceptable to Low Vision patient ?

   2 + 6 + 6 + 1

7. Define rehabilitation. How will you do "Functional orientation and mobility evaluation" in a case of Low Vision patient ? Write in brief about the "Pinhole devices as LVA".   2 + 8 + 5

8. Define low vision. Classify low vision according to WHO. Describe importance of history taking in low vision testing. Write down the role of optometrist in low vision.

   3 + 4 + 5 + 3

9. Describe amsler grid testing & its implication on low vision magnification. Describe one method of contrast sensitivity testing.   10 + 5