



Name :

Roll No. :

Invigilator's Signature :

**CS/B.OPTM/SEM-5/BO-505/2009-10
2009**

LOW VISION AIDS & 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) Which theory is used in plus lens magnifier system ?
 - a) angular M
 - b) relative size M
 - c) relative distance M
 - d) none of these.

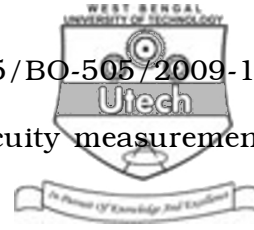
 - ii) Patient suffering from ARMD notice mainly there is a loss of field of vision.
 - a) temporal
 - b) peripheral
 - c) central.

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- iii) Hand held minus lens may be used in low vision care for
- a) magnification
 - b) increment of contrast sensitivity
 - c) peripheral visual field awareness
 - d) none of these.
- iv) The gap difference between each letter in a row of Log Mar chart is
- a) 0.1 log unit
 - b) 0.02 log unit
 - c) 0.2 log unit
 - d) 0.01 log unit.
- v) According to WHO definition visual field of around fixation point each side is considered as one of low vision criteria.
- a) 10°
 - b) 15°
 - c) 5°
 - d) 20°.
- vi) A simple Convex Lens gives 3X magnification. Assuming 25 cms to be the distance of most distinct vision (reference distance) the diopetric power of the lens is
- a) 7.5 D
 - b) 8 D
 - c) 12 D
 - d) none of these.
- vii) A Bar magnifier
- a) is basically a Convex cylinder
 - b) magnifies a letter in the print — vertically
 - c) none of these
 - d) all of these.



- viii) Which of the following is a visual acuity measurement chart ?
- a) Pseudo-isochromatic chart
 - b) Amsler grid
 - c) Feinbloom chart
 - d) FACT chart.
- ix) Each letter in a Bailey Lovie LogMar chart is assigned with a value of (when viewed from 4 metre distance)
- a) 0.2 LogMar units b) 0.02 LogMar units
 - c) 0.01 LogMar units d) 0.1 LogMar units.
- x) Bright Acuity Test (BAT) is required for
- a) contrast testing b) glare testing
 - c) colour perception test d) visual acuity test.
- xi) The Keplerian telescope while lens dioptric value is more
- a) eyepiece lens b) objective lens
 - c) spectacle lens d) none of these.

GROUP – B

(Short Answer Type Questions)

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

3 × 5 = 15

- 2. Braille system.
- 3. Absorptive lenses.
- 4. Bioptic telescope.
- 5. Low vision management in aniridia.

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GROUP – C

(Long Answer Type Questions)

Answer any *three* of the following. $3 \times 15 = 45$

6. Describe the low vision patient refraction and radioscopy technique. What is Amsler chart ? 6 + 6 + 3
7. What is the role of contact lenses in low vision care ? Briefly discuss overview of glare testing. 8 + 7
8. What is rehabilitation ? Discuss about mobility and orientation training in low vision care. 5 + 10
9. Principle of 'Magnification' is a very useful concept in L.V.A. prescription. Explain with suitable examples. Mention three disease conditions, where the prescription of an L.V.A. is a great help to the patient. Explain your answer. 10 + 5

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