	Utech
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Invigilator's Signature :	

# 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)

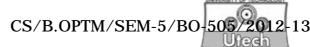
1.	Choose the correct alternatives for any ten of the followin	<b>g</b> :
	$10 \times 1 =$	10

- 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.

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iii)	Testing distance for lighthouse near acuity card is						
	a)	1 m	<b>b</b> )	40 cm			
	c)	33 cm	d)	none of these.			
iv)	Pati	atient suffering from retinitis pigmentosa has init					
	field						
	a)	central	<b>b</b> )	peripheral			
	c)	arcuate	d)	temporal.			
v)	Diopteric value of a plus lens magnifier of 6X magni						
	is						
	a)	12 D	<b>b</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)	Nur	mber of letters present in each row of a typical log					
	Mar chart is						
	a)	3	<b>b</b> )	5			
	c)	6	d)	10.			
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viii)	Which	of the	following	is a l	Non-Or	otical I	I wo.	/ision	Aid?
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- 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.

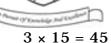
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## (Long Answer Type Questions)

Answer any three of the following.



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
- 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

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