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Invigilator's Signature :	

CS/B.OPTM/SEM-4/BO-403/2012 2012 CLINICAL REFRACTION-I

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 the following:

 $10 \times 1 = 10$

- i) The drug which are responsible for paralysis of the parasympathetic nerve ending, called
 - a) miotic drugs
 - b) anti-cholinesterases
 - c) parasympathomimetic drugs
 - d) parasympatholytic drug.
- ii) Pin hole increases visual acuity by
 - a) reducing size of blur circle
 - b) increasing size of blur circle
 - c) cutting of peripheral rays
 - d) both (a) and (c).

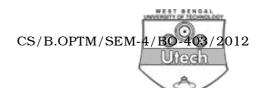
4221 [Turn over

CS/B.OPTM/SEM-4/BO-403/2012

- iii) A dim and unfocused retinal image may form where the diameter of the pin hole disc is
 - a) les than 1 mm
 - b) less than 1.5 mm
 - c) less than 2 mm
 - d) less than 1.32 mm.
- iv) At end point of retinoscopy on slight forward movement of the head, the movement of reflex is obtained
 - a) with

- b) against
- c) no movement
- d) rapid.
- v) Near point of accommodation is measured by
 - a) RAF ruler
 - b) Diploscope
 - c) Cycloplegia
 - d) Fogging method.
- vi) Duochrome test is based on
 - a) Spherical aberration
 - b) Coma
 - c) Chromatic aberration
 - d) None of these.
- vii) Following are the method of dynamic retionoscopy except
 - a) Bell's method
 - b) Nott's method
 - c) Turville infinity method
 - d) MEM method.

4221 2



- viii) When the retinoscopy is done at 50 cm then working lens should be
 - a) 1.5 dD

b) 1.00 dD

c) 2.00 D

- d) None of these.
- ix) Mahindra retinosopy is done to
 - a) children
- b) low vision patients
- c) aphakic patients
- d) none of these.
- x) Spherical equivalent of -2.00 Ds/-3.00 Dcl @ 90 is
 - a) -2.50 Ds
- b) -3.50 Ds
- c) -4.00 Ds
- d) -5.00 Ds.

GROUP - B

(Short Answer Type Questions)

Write short notes on any *three* of the following. $3 \times 5 = 15$

- 2. Nott's and MEM method of Retinoscopy.
- 3. Astigmatic fan and block
- 4. Vertex distance and distometer
- 5. Minimum angle of Resolution.

4221

3

[Turn over

CS/B.OPTM/SEM-4/BO-403/2012



GROUP - C

(Long Answer Type Questions)

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

- 6. What is the meaning of 6/60 notation ? Write down the difference between the Snellen's chart and Log MAR chart and discuss the advantages of Baile-Lovie chart over Snellen's chart. 5+5+5
- 7. What are the steps of monocular and binocular subjective Refraction? What is the use of fogging and sudden defogging in Subjective Refraction? $7\frac{1}{2} + 7\frac{1}{2}$
- 8. Wha is Neutralization? How do you proceed to do neutralization in spehero-cyl subject in streak retinoscopy?
- 9. a) What is Duochrone test? How will you help correct spherical ametropia by Duochrone test?
 - b) What is the basic principle of Duochrome test? 10 + 5

4221 4