



Name :

Roll No. :

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 × 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).

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[Turn over



- iii) A dim and unfocused retinal image may form where the diameter of the pin hole disc is
- a) less 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.



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. What is Neutralization ? How do you proceed to do neutralization in spherocyl subject in streak retinoscopy ? $3 + 12$
9. a) What is Duochrome test ? How will you help correct spherical ametropia by Duochrome test ?
- b) What is the basic principle of Duochrome test ? $10 + 5$
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