

## CS/B.OPTM/SEM-4/BO-403/2012 2012 <br> 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 :

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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).
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.
viii) When the retinoscopy is done at 50 cmithen working lens should be
a) 1.5 dD
b) $\quad 1.00 \mathrm{dD}$
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 $-2.00 \mathrm{Ds} /-3.00 \mathrm{Dcl} @ 90$ is
a) $\quad-2.50 \mathrm{Ds}$
b) $\quad-3.50 \mathrm{Ds}$
c) $\quad-4.00 \mathrm{Ds}$
d) -5.00 Ds .

## GROUP - B <br> ( Short Answer Type Guestions )

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.

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( 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? $3+12$
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? $10+5$

