

CS/B.OPTM/SEM-4/BO-401/2013

2013

VISUAL OPTICS (OPTICS – IV)

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) Pelli Robson chart is used for

- a) V. A. testing
- b) Glare testing
- c) Contrast sensitivity testing
- d) Colour vision testing.

ii) 1 mm shortening of axial length of eyeball can produce

- a) 1D of hyperopia b) 3D of hyperopia
- c) 1D of myopia d) 3D of myopia.

iii) If a myopic patient shifts from spectacle to contact lens

- a) accommodative & vergence demand increase
- b) accommodative & vergence demand decrease
- c) accommodative demand increases but vergence demand decreases
- d) no change occurs in accommodative & vergence demand.

iv) Spherical equivalent of $+2.00/-2.50$ D cyl 90° is

- a) $+3.25$ Dsph b) -0.50 Dsph

c) + 0.75 Dsph d) + 0.50 Dsph.

v) Coma is a type of

- a) off-axis spherical aberration
- b) chromatic aberration
- c) peripheral magnification
- d) none of these.

vi) A patient having refractive error of

-1 Dsph/-3.00 Dcyl 180 is an example of

- a) with the rule astigmatism
- b) against the rule astigmatism
- c) mixed astigmatism
- d) none of these.

vii) In Listings reduced eye posterior focal point on retina is

..... behind anterior surface of cornea.

- a) 22.9 cm b) 22.5 mm
- c) 24.4 cm d) 22.9 mm.

viii) Against the rule astigmatism refers to a condition where

the horizontal meridian is curved than the vertical meridian.

- a) more b) less
- c) equally d) none of these.

ix) In case of hypermetropia punctum remotum is at

- a) infinity b) in front of the eye
- c) behind eye d) none of these.

x) Far point of a patient is at 20 cm in front of the eye, his

refractive error is

- a) - 5.00 D b) + 5.00 D

