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IV Write any **FIVE** answers of the following:

(5 x 6 = 30)

1. Discuss about the factors determining the accuracy of retinoscopy
2. What is amblyopia? Discuss about the treatment options.
3. State Knapp's law and discuss about the aniseikonia caused by axial and refractive anisometropia.
4. A 21 year old reports to your clinic with headache and eyestrain. Visual activity (unaided) is 6/12 (partial) in both eyes. Dry objective refraction is $\bar{0}.25DS(BE)$ whereas the patient accepts $T.25DS\left(\frac{6}{6}\right)$. Duochrome green better. Anterior and posterior segments normal.
 - (a) What are the other tests recommended for this case and why.
 - (b) Diagnose the condition, if CTC value is plano, justify your answer.
5. Transpose the following in the other two forms:
 - (a) $+3.00DC \times 180 / -1.00DC \times 90$
 - (b) $-5.00DS / +3.00DC \times 120$
 - (c) $+8.00DS / -4.00DC \times 180$
6. What are the indications for keratometry? Convert the following radius of curvature to diopters and mention the steep K value and type of astigmatism.
flat K value : 7.7mm @ 90 and 8.2 mm @ 180.
7. Define ocular refraction and spectacle refraction. What is the difference between ocular refraction and contact lens refraction.

V Write any **TWO** essays of the following:

(2 x 10 = 20)

1. Discuss on hyperopia and presbyopia
2. Discuss on static retinoscopy and the characteristics of reflex in different types of refractive error and other ocular conditions
3. Discuss and compare ocular accommodation with spectacle accommodation for +5.00D hyperope and -5.00D myope.

(Sl.No. M19243)