

P40/HSC115/EE/20160524

Time : 3 Hours

Marks : 80

Instructions :

1. All Questions are Compulsory.
 2. Each Sub-question carry 5 marks.
 3. Each Sub-question should be answered between 75 to 100 words. Write every questions answer on separate page.
 4. Question paper of 80 Marks, it will be converted in to your programme structure marks.
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1. Solve any **four** sub-questions.
 - a) Write about optics of Keratometry. 5
 - b) Explain with diagram various illumination types of slit lamp. 5
 - c) Explain about Ishihara chart in detail and write its uses. 5
 - d) Explain how will you do subjective refraction. 5
 - e) Write in detail about glazing in detail and how will you fit the lens in rimless frame. 5

2. Solve any **four** sub-questions.
 - a) Write in detail manufacturing of glass lens blank. 5
 - b) Enlist various methods to measure PD. Write in detail about Pupillometer in detail. 5
 - c) Write in detail about Applanation tonometry. 5
 - d) Explain A-scan and write its use. 5
 - e) Explain procedure of plane mirror retinoscopy. Explain its advantages and disadvantages. 5

3. Solve any **four** sub-questions.
- a) Explain confrontation method in detail and write its uses. 5
 - b) Explain properties of ideal ophthalmic lens material in detail. 5
 - c) Write about Jackson cross cylinder in detail. How to perform the same and explain its uses? 5
 - d) A 13 year old male patient coming into your shop having power of +7.00D in both eyes. Write and explain which type of frame and lens material you will advise to this patient. 5
 - e) Explain forms of lens. 5
4. Solve any **four** sub-questions.
- a) Define Progressive lenses. Write about designs in progressive lenses. 5
 - b) Differentiate between direct ophthalmoscope and indirect ophthalmoscope. 5
 - c) Define tinted lenses. Write about Pink, Brown, Yellow and Gray tint. 5
 - d) Explain Schirmer's test and TBUT test in detail. Explain its use and why it important to perform in routine eye examination. 5
 - e) Explain about Kryptok and executive bifocal lenses. 5

