

## P26/HSC159/EE/20160527

Time : 3 Hours

Marks : 80

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### 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) What is Striae? Which technique is used to view them on slit lamp? 5
  - b) What is the use of Radiuscope and explain its use. 5
  - c) Enlist any five soft contact lens polymer after PHEMA. 5
  - d) What is sag height? Write the formula to calculate it. 5
  - e) Explain terms : 5
    - i) PCR
    - ii) OZ
2. Solve any **four** sub-questions.
  - a) Enlist "Do's" for contact lens wear. 5
  - b) What is static fitting assessment? 5
  - c) What are various filters of slit lamp used in CL practice? 5
  - d) Correction of presbyopia with mono vision. 5
  - e) Why the soaking solution is needed in contact lens cleaning solution? 5

3. Solve any **four** sub-questions.

- a) Calculate effective power of contact lens if spectacle power is  $+7.50 / +1.00 \times 70$  worn at 10mm distance. 5
- b) Refractive error corrected by contact lens gives image almost similar to an emmetropic image. Comment. 5
- c) A 31 year old manager has refractive error of OD  $-1.50$ Ds, 6/6; OS  $+1.00$ Ds 6/6 starts wearing contact lens. Comment on his accommodative and convergence demands while using contact lenses as compared to spectacles. 5
- d) Write a note on FDA classification of contact lens material. 5
- e) True or False : 5

Oxygen permeability is affected by thickness of contact lens. Justify your answer with proper explanation.

4. Solve any **four** sub-questions.

- a) Write a note on Classifications of Keratoconus. 5
- b) What is 'Dimple Veiling'? 5
- c) What are indications for Soft contact lens fitting? 5
- d) What are advantages and disadvantages of cast moulding? 5
- e) Draw a neat diagram of "tear-film" and label the diagram. 5

