

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[AHS 0222]

**FEBRUARY 2022
(OCTOBER 2021 EXAM SESSION)**

Sub. Code: 1623

M.OPTOM

FIRST YEAR (Candidates admitted from 2018-2019 & 2020-2021 onwards)

PAPER III – ADVANCED CONTACT LENSES - I

Q.P. Code : 281623

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate notes on:

(2 x 20 = 40)

1. What are the various methods to manufacture rigid gas permeable lenses and soft contact lenses?
2. What are the various (five) modifications possible with rigid gas permeable lenses and how do you go about doing each of the modifications.

II. Write Short Notes on:

(10x6 = 60)

1. From the early contributions in the 16th century to the recent developments in silicon elastomers, write the major events in the development of contact lens materials.
2. What are the various methods to assess the fit of rigid gas permeable lenses.
3. What are the various investigations and tools used prior to fitting contact lenses.
4. Discuss the types of fit on a toric cornea, with a spheric and toric lens.
5. Name three important material properties of contact lenses and their significance.
6. Name any three components of a lens care system, their functions with examples.
7. Name few instances where contact lenses are indicated and why?
8. What is the importance of a keratometer, topographer and slit lamp in contact lenses fitting.
9. What is the step by step procedure that you will instruct your patient on wearing and removal of rigid gas permeable contact lens.
10. What are the various parameters that you need to calculate to finalize on the best suitable contact lens for the patient.
