

First Year Master of Optometry Degree Examination – December 2015

ADVANCED CONTACT LENS STUDIES - I

Time: 3 Hours

Total Marks: 80

- Answer all Questions.
- Draw Diagrams wherever necessary.

Essay

(20)

1. Explain in detail about following contact lens complications due to RGP contact lens wear and mention your plan of management. (7+7+6=20)
 - 3 & 9 O'clock staining
 - CLPC
 - Lens adherence

Short Essays

(6x10=60)

2. Describe sources of oxygen for cornea during open and closed eye condition. Briefly explain the following: (2+4+4=10)
 - EOP
 - Oxygen flux
3. Describe in detail about different clinical test you would like to perform to investigate dry eye. Explain briefly about your lens of choice and care regime for a border line dry eye patient who is symptomatic at times but wanted to use contact lens. (6+4=10)
4. Explain in detail about different disinfectants and lubricating agents used in MPS for soft contact lenses with suitable examples. Name few protein removers with example. (8+2=10)
5. A 22 years old female patient who works in a software company have come to you for final contact lens collection for a year supply. Consider that you have decided to dispense her monthly disposable hydrogel contact lens the lenses are not dispensed in the same day of trial. What are the steps you would like to perform before and during dispensing those pair of contact lenses. Discuss each step briefly. (10)
6. Mention in detail about fitting criteria for a flat, optimum & steep fit soft contact lens. Narrate the role for following parameters on soft contact lens fitting: (5+2^{1/2} +2^{1/2} =10)
 - Sagittal height
 - Center thickness
7. Explain how silicon hydrogel contact lens materials has evolved over the period of time. Describe different generations of silicon hydrogel contact lens materials with example. (4+6=10)