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## MANIPAL UNIVERSITY

FIRST YEAR MASTER OF OPTOMETRY DEGREE EXAMINATION – DECEMBER 2014

SUBJECT: PAPER – I: ADVANCED CONTACT LENS STUDIES – I

Wednesday, December 17, 2014

Time: 10:00 – 11:30 Hrs.

Maximum Marks: 40

**Answer ALL the questions.**

1. **Write short notes on:**

- 1A. Write on the unique properties of silicon hydrogel materials compared to hydrogels.
- 1B. Importance of topography and slit lamp biomicroscope in contact lens practice.
- 1C. What is the importance of wettability of a contact lens? Describe three methods used in the laboratory measurement of wettability?
- 1D. Effect on accommodation and convergence for myopes, hyperopes and emmetropes when shifting from spectacles to contact lenses.
- 1E. Brief on the corneal endothelial changes that can occur due to hypoxia in contact lens wear.

(6 marks × 5 = 30 marks)

**Answer the following question:**

2. A welder of age 30 has come to you for his initial contact lenses. The refraction shows OD: -4.00/-2.00×70, OS: -5.00/-2.50×180. Elaborate on your approach and management of the case.

(10 marks)

