

FEDERAL UNIVERSITY OF TECHNOLOGY, OWERRI
SCHOOL OF HEALTH TECHNOLOGY
DEPARTMENT OF OPTOMETRY

2011/2012 HARMATTAN SEMESTER EXAMINATION

Date: 11/05/2012

Course Title: DISPENSING OPTICS 1 COURSE code: OPT. 505(2 units)

Time: 2hrs

Answer in All, four questions. Two questions from each section on a separate answer booklet

Section A:

1. Discuss the methods of Lens manufacturing, stating their advantages and disadvantages.
2. Explain the following Grinding Operations which complete the Surfacing Processes.
 - i. Medium Grinding
 - ii. Fine Grinding
 - iii. Polishing
 - iv. Deblocking
 - v. Inspection
3.
 - i. What are possible noticeable defects in the course of Lens manufacturing
 - ii. Write short note on the following
 - a. Rough Blanks
 - b. Semi finished Blanks.

SECTION B

1. Outline and discuss the processes involved in Optical Benchwork. (20 mks)
2. ^{2 mks} What is Mounting? Explain the procedures involved in inserting Lenses in
 - i. A Cellulose Acetate (XYL) frame 9 mks
 - ii. A Nylon Cord frame (Rimless) 9 mks
3.
 - i. Describe the problems encountered with frame misalignment. 10 mks
 - ii Name and explain the various types of temple Adjustment 10 mks