**FEDERAL UNIVERSITY OF TECHNOLOGY, OWERRI**
**SCHOOL OF HEALTH TECHNOLOGY**
**DEPARTMENT OF OPTOMETRY**
**2015/2016 HARMATTAN SEMESTER EXAMINATION**
**OPT 507 – LOW VISION AND OCULAR PROSTHESIS - 3 UNITS**
**TIME ALLOWED: 3 HRS**
**INSTRUCTION: Answer 5 questions, 2 from each section and any other**

**SECTION**

1. With the aid of examples, discuss 2 methods of calculating near addition in low vision examination (20 marks)

2. Describe a Telescopic system and differentiate it from a Telemicroscope (20 marks)

3. Write notes on the following:
   (a) Magnifiers (8 marks)
   (b) Angular magnification (8 marks)
   (c) 4 factors you may assess under general observation to obtain information about a low vision patient (4 marks)

4. (a) With the aid of a diagram, explain how moving closer to an object can achieve higher magnification (10 marks)
   (b) Assume a patient has a best corrected visual acuity of 20/400 at 40 cm, at what distance must the test card be kept to enable him read the 20/50 line. (5 marks)
   (d) If the patient in (b) is given a 30 mm, +15.00D lens to be used at a vertex distance of 14 mm from the entrance pupil, determine the field of view that will be afforded this patient.(5 marks)

**SECTION B**

5. (a) What do you understand by the terms: Exenteration, Enucleation, and Evisceration (6 marks)
   (b) Give the advantages of ocular prosthesis (7 marks)
   (c) What ocular discomforts can emanate from the use of ocular prosthesis after a period of time (7 marks)

6. (a) List 6 common physiological disorders and diseases that can cause low vision and explain any 2 (10 marks)
   (b) (i)Define low vision (3 marks)
   (ii) Differentiate the following terms used in low vision: Disorder, impairment, disability and handicap (7 marks)

7. (a) Describe the process of designing and fabricating ocular prosthesis (10 marks)
   (b) Write short notes on the following:
   (i) Orbital implants
   (ii) Scleral shell (5 marks each)