



MASINDE MULIRO UNIVERSITY OF SCIENCE AND TECHNOLOGY (MMUST)

MAIN CAMPUS

UNIVERSITY EXAMINATIONS 2021/2022 ACADEMIC YEAR

2ND SEMESTER MAIN EXAM

**FOR THE DEGREE
OF
BACHELOR OF OPTOMETRY AND VISION SCIENCES (BOPTOM)**

COURSE CODE: BOV 420

COURSE TITLE: LOW VISION II

DATE: 26/04/2022

TIME: 8-10AM

INSTRUCTIONS TO CANDIDATES

- (i) WRITE YOUR UNIVERSITY REGISTRATION NUMBER ON EVERY PAGE OF PAPER YOU USE.
- (ii) DO NOT WRITE YOUR NAME ON ANY PIECE OF PAPER YOU USE.
- (iii) THIS PAPER CONSISTS OF TWO (2) SECTIONS: MULTIPLE CHOICE QUESTIONS (MCQS) AND ESSAY QUESTIONS
- (iv) ANSWER ALL QUESTIONS

TIME: 2 Hours

MMUST observes ZERO tolerance to examination cheating

SECTION A: 40 MARKS

ANSWER ALL QUESTIONS

1. In environmental modification, lighting has significant influence on the ability of a low vision patient to comfortably perform activities of daily living.
 - i. List any 5 types of light (5 marks)
 - ii. Highlight any 2 advantages and 2 disadvantages of any 2 types of light you have stated above (8 marks)
 - iii. Recommend any 5 outdoor environmental modification designs to increase mobility of a low vision patient (5 marks)
 - iv. Differentiate between the inverse square law and the cosine law of illuminance of an area (4 marks)
2. Suffering from Glaucoma leads to several functional implications on the life of a low vision patient. State any 4 behavioral manifestations of peripheral visual field loss in the life of a low vision patient (4 marks)
3. Briefly describe the process of training low vision patients in the use of low vision devices (8 marks)
4. I) State the goal of any low vision assessment (2 marks)
II) With an example, differentiate between **acuity reserve** and **contrast reserve** (4 marks)

SECTION B (30MARKS)

ANSWER ALL QUESTIONS

1. Discuss any 5 importances of functional vision assessment among children living with low vision (10 marks)
2. Discuss the modification of the clinical examination process for vision assessment in children with multiple disabilities (20 marks)

THE END