



(University of Choice)

**MASINDE MULIRO UNIVERSITY OF
SCIENCE AND TECHNOLOGY**

(MMUST)

MAIN CAMPUS

UNIVERSITY MAIN EXAMINATIONS

2022/2023 ACADEMIC YEAR

FOURTH YEAR, SECOND SEMESTER EXAMINATIONS

FOR THE DEGREE OF

BACHELOR OF OPTOMETRY AND VISION SCIENCES

COURSE CODE: BOV 424

COURSE TITLE: GERIATIC OPTOMETRY

DATE: 20/4/2023

TIME: 8.00-10.00 PM

INSTRUCTIONS TO CANDIDATES

Answer all Questions

Section A: Multiple choice questions (MCQ) (20 marks)

Section B: short Answer Questions (SAQ) (30 marks)

Section C: Long Answer Questions (LAQ) (20 marks)

TOTAL 70 MARKS

TIME: 2 Hours

MMUST observes ZERO tolerance to examination cheating

This Paper Consists of SIX Printed Pages. Please Turn Over.

SECTION A MULTIPLE CHOICE QUESTIONS

- 1) Why do some older adults not seek healthcare for their complaints?
 - A. Prefer to be left alone
 - B. Poor health literacy
 - C. Think it's a normal part of ageing
 - D. Hate clinic appointments
- 2) Which of the following is a kidney function that changes with age?
 - A. Increased renal blood flow
 - B. Increased tubular secretion
 - C. Decreased kidney size
 - D. Increased number of functional nephrons
- 3) Which one of the following is an Age-related eye change?
 - A. increased visual accommodation.
 - B. Macular degeneration.
 - C. Non-preventable blindness as a result of glaucoma.
 - D. Decreased ability of the pupil to respond to light changes.
- 4) The term 'gerontology' means
 - A. Old age
 - B. Study of healing
 - C. Study of the ageing process
 - D. Study of human beings
- 5) Polypharmacy may be defined as?
 - A. A patient who takes Multiple medications
 - B. A patient who takes other people's medications
 - C. A patient who takes medication more than once a day
 - D. A patient who takes Medication only when he or she feels the need to
- 6) Deposition of uveal pigment on the corneal endothelium with ageing is known as?
 - A. Arcus senilis
 - B. Krukenberg's spindle
 - C. Hassall-henle bodies
 - D. Marginal degeneration

- 7) What is one reason polypharmacy exists among older adults?
- A. counter act side effects
 - B. Older adults are very good at taking medication
 - C. Older adults like taking medication
 - D. Health care providers don't coordinate the medication regimes
- 8) How can a caregiver improve communication with an older adult with hearing impairment?
- A. Shout to the patient to hear better
 - B. Avoid light on your face to discourage lip reading
 - C. Avoid interaction
 - D. Let the person see your face when you speak
- 9) A 79-year-old woman presented with a sudden loss of vision in the right eye. She was taking warfarin and digoxin for chronic atrial fibrillation and had a history of longstanding hypertension. What is the most likely diagnosis?
- A. A acute glaucoma
 - B. B cranial arteritis
 - C. C macular degeneration
 - D. D retinal artery occlusion
- 10) Which one of the following is a reason for non-compliance with medication among geriatric patients?
- A. Side effects
 - B. Polypharmacy
 - C. Simple medical regimen
 - D. Physical disability
- 11) An experienced optometrist tells a younger optometrist that older adults have "outlived their usefulness." what is the term for this type of prejudice?
- A. Racism
 - B. Ageism
 - C. Harassment
 - D. Whistleblowing

- 12) The family member of a patient asks if vitamin C will prevent ageing. In formulating an appropriate response, the nurse considers the:
- A. free radical theory.
 - B. autoimmune theory.
 - C. wear-and-tear theory.
 - D. continuity theory.
- 13) Which one of the following is a type of non-compliance among the elderly.
- A. Overuse
 - B. Polypharmacy
 - C. Hoarding
 - D. Sharing
- 14) The slow onset of progressive disorientation, shortened attention span, and loss of cognitive function is known as?
- A. Senility
 - B. Delirium
 - C. Dementia
 - D. Delusion
- 15) A 66-year-old retired professional basketball player is admitted to the hospital for a total knee replacement due to osteoarthritis. In preparing preoperative teaching for this patient, the nurse includes which theory of ageing to help him understand how the disease has progressed.
- A. Free radical theory
 - B. Wear-and-tear theory
 - C. Gene theory
 - D. Cross-link theory
- 16) Which one of the following statements regarding depression in old age is true?

- A. Depression in older adults is easily diagnosed and treated.
- B. Health care providers may mistake symptoms of depression as just a natural reaction to illness or the life changes that may occur with ageing and may not treat depression.
- C. Older adults themselves often seek help for depression because they feel that they could get better with appropriate treatment
- D. Questions that assess the symptoms of depression using the patient health questionnaire are commonly used in surveys.

17) Which one of the following is a physiologic change that occurs during the process of ageing?

- A. Increased elasticity of the alveoli
- B. A gradual decrease in blood pressure
- C. A decline in kidney function
- D. 10% to 15% increase in brain weight

18) Which of the following is a characteristic of a chronic illness?

- A. Has reversible pathologic changes
- B. Has unpredictable clinical course
- C. Full recovery is made
- D. Always starts with an acute illness and then progresses slowly resulting in a permanent deviation from normal

19) Which is not a potential barrier to advance care planning for older people?

- A. Unwillingness of family members to accept their relative is dying
- B. Absence of cognitive impairment
- C. Patients perceiving end-of-life care discussions as the responsibility of family members
- D. patient thinking 'my doctor will decide for me'

20) Ageing changes in the crystalline lens may cause a condition known as?

- A. Ptosis
- B. Cataract
- C. Ectropion
- D. Subluxation

SECTION B SHORT ANSWER QUESTIONS

1. Highlight the Five intrinsic factors that may put an elderly person at risk of falling (5 marks).
2. Explain the effects of ageing on the following (10marks)
 - a) Glare
 - b) Contrast sensitivity
 - c) Refractive status
 - d) Binocular vision changes
 - e) Dark adaptation
3. Name and explain 5 types of elder abuse 10 marks
4. Highlight five physiological changes that occur during ageing that might alter the pharmacokinetics of drugs (5marks)

LONG ANSWER QUESTIONS

- 1) Discuss the principals involved when prescribing for geriatric populations 20marks.