



MACHAKOS UNIVERSITY

University Examinations 2022/2023 academic year

SCHOOL OF EDUCATION

DEPARTMENT OF EDUCATIONAL PSYCHOLOGY AND SNE

FOURTH YEAR SECOND SEMESTER EXAMINATION FOR

BACHELOR OF EDUCATION (SPECIAL NEEDS EDUCATION)

**ESN 425: ASSISTIVE TECHNOLOGY AND DEVICES FOR LEARNERS WITH
PHYSICAL HANDICAPP & OTHER HEALTH IMPAIRMENTS**

DATE:

TIME:

INSTRUCTIONS

Answer question ONE and any other TWO questions.

QUESTION ONE (30 MARKS)

- a) Explain five reasons why persons with motor deviations require assistive devices. (10 marks)
- b) Discuss six professionals that should be present to evaluate a learner's eligibility for assistive devices (12 marks)
- c) Describe four academic devices for learners with motor deviations (8 marks)

QUESTION TWO (20 MARKS)

- a) Children with Osteogenesis Imperfecta have bones that break easily without cause. Explain six other symptoms that these children exhibit (12 marks)
- b) Discuss four non-surgical interventions for the condition in (a) above (8 marks)

QUESTION THREE (20 marks)

- a) Describe six assistive technology options that a multidisciplinary team can recommend for a learner with Muscular Dystrophy (12 marks)

- b) Explain four challenges that must be addressed when prescribing mobility equipment for persons with Spina Bifida (8 marks)

QUESTION FOUR (20 MARKS)

- a) Explain six benefits of using assistive devices for persons with Cerebral Palsy (12 marks)
c) Examine four factors to consider during the selection of assistive devices for motor deviations (8 marks)

QUESTION FIVE (20 MARKS)

- a) Describe the roles of five professionals on the individualized education programme (IEP) for learners with motor deviations (10 marks).
b) Discuss five risks associated with the use of mobility devices (10 marks)