

MACHAKOS UNIVERSITY

University Examinations for 2021/2022 Academic Year

SCHOOL OF EDUCATION

DEPARTMENT OF EDUCATIONAL PSYCHOLOGY & SNE

FOURTH YEAR SECOND SEMESTER EXAMINATION FOR

BACHELOR OF EDUCATION (SPECIAL NEEDS EDUCATION)

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

DATE: 14/12/2021 TIME: 11.00-1.00 PM

INSTRUCTIONS: Answer Question One and Any Other Two

QUESTION ONE (COMPULSORY) (30 MARKS)

a) Explain five reasons why persons with motor deviations require assistive devices.

(10 marks)

- b) Describe five major neurological disabilities affecting persons with motor deviations (10 marks)
- c) Discuss five risks associated with the use of mobility devices (10 marks)

QUESTION TWO (20 MARKS)

a) Explain six benefits of using assistive devices for persons with Cerebral Palsy.

(12)

marks)

b) Examine four self-advancement technologies to support Activities for Daily Living (ADL). (8 marks)

QUESTION THREE (20 MARKS)

- a) Explain four challenges that must be addressed when prescribing mobility equipment for persons with spina bifida. (4 marks)
- b) Discuss eight factors to consider during the selection of assistive devices for motor deviations. (16 marks)

QUESTION FOUR (20 MARKS)

- a) Describe five mobility devices for persons with lower limb deformities. (10 marks)
- b) Describe five assessment tools that are used during assessment and diagnosis of persons with motor deviations (10 marks)

QUESTION FIVE (20 MARKS)

- a) Identify four academic devices for learners with motor deviations (4 marks)
- b) Describe the roles of eight professionals on the individualized education programme (IEP) for learners with motor deviations. (16 marks)