



MACHAKOS UNIVERSITY

University Examinations 2019/2020 academic year

SCHOOL OF EDUCATION

DEPARTMENT OF EDUCATIONAL PSYCHOLOGY, SPECIAL NEEDS EDUCATION

FOURTH YEAR SECOND SEMESTER EXAMINATION FOR

BACHELOR OF EDUCATION

ESN 435: BIOMEDICAL ASPECTS OF AUTISTIC SPECTRUM DISORDERS:

DATE: 22/10/2020

TIME: 2.00-4.00 PM

INSTRUCTIONS

Answer Question One and Any Other Two Questions

QUESTION ONE (30 MARKS)

- a) Discuss the various signs and symptoms shown by persons with autism spectrum disorders. (10 marks)
- b) Describe various childhood degenerative diseases. (10 marks)
- c) Explain on Aspergers syndrome. (10 marks)

QUESTION TWO (20 MARKS)

- a) Discuss the biomedical causes of autism spectrum disorder. (10 marks)
- b) State the cognitive difficulties experienced by learners with autism spectrum disorder. (10 marks)

QUESTION THREE (20 MARKS)

- a) Expound on the brain signs and structure in learners with autism spectrum disorder. (10 marks)
- b) Describe the sensory and perceptual difficulties experienced by learners with autism spectrum disorders. (10 marks)

QUESTION FOUR (20 MARKS)

- a) Discuss the various pervasive development disorders in learners with autism spectrum disorder. (10 marks)
- b) Describe methods of preventing autism spectrum disorder. (10 marks)

QUESTION FIVE (20 MARKS)

- a) Discuss the various methods of assisting a learner with autism spectrum disorder in a regular class. (10 marks)
- b) Explain on the link between genetics and autism spectrum disorder. (10 marks)



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

DATE: 28/10/2020

TIME: 8.30-10.30 AM

INSTRUCTIONS

Answer Question One and Any Other Two Questions

QUESTION ONE (30 MARKS)

- a) Discuss the various considerations when assessing a learner with physical disabilities and other health impairments for assistive technology. (10 marks)
- b) List and describe the various self-care skills a learner with physical disabilities can be taught to perform using assistive technology. (10 marks)
- c) Explain the various challenges faced by a learner with physical disabilities when accessing a computer. (10 marks)

QUESTION TWO (20 MARKS)

- a) Discuss the components of an individualized educational programme. (12 marks)
- b) State the importance of assistive technology to learners with physical disabilities. (8 marks)

QUESTION THREE (20 MARKS)

- a) Discuss the various mobility devices that can be used by a learner with physical disabilities. (10 marks)
- b) Describe the members of a multi-disciplinary team who participate in the preparation of an individualized educational programme. (10 marks)

Examination Irregularity is punishable by expulsion

QUESTION FOUR (20 MARKS)

- a) List and describe the various academic devices used by learners with physical disabilities. (10 marks)
- b) Discuss the different leisure activities a person with physical disabilities can participate in using assistive technology. (10 marks)

QUESTION FIVE (20 MARKS)

- a) Describe the prevocational and community tasks that a learner with physical disabilities can participate in. (10 marks)
- b) State the challenges of a learner with physical disabilities in a class setting without assistive technology. (10 marks)