



**MASENO UNIVERSITY**  
**UNIVERSITY EXAMINATIONS 2016/2017**

**SECOND YEAR FIRST SEMESTER EXAMINATION FOR DIPLOMA IN  
SPECIAL NEEDS EDUCATION**

**CITY CAMPUS**

**EDSE 0112: SCIENCE I**

**Date:** 28<sup>th</sup> November, 2016

**Time:** 9.00 – 12.00pm

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**INSTRUCTIONS:**

- Attempt Question ONE (Compulsory) and any other TWO.



### QUESTION ONE

a. Distinguish between the following terms and concepts:

i. Dynamic and static view of science (4mks)

ii. Naturally acquired immunity and artificially acquired immunity. (4mks)

iii. Drug dependence and Drug tolerance (4mks)

b. Explain **two** elements of weather. (4mks)

c. Explain **three** components of the soil. (6mks)

d. State **three** characteristics of flatworms. (3mks)

### QUESTION TWO

Discuss the impact of HIV and AIDS on an individual, family and nation. (15mks)

### QUESTION THREE

i. Describe **one** communicable disease. (3mks)

ii. Describe **one** simple experiment that you would use to demonstrate each the following properties of matter:

a. Pressure in gases

b. Conduction of heat in solids

c. Expansion and contraction in liquids (12mks)

**QUESTION FOUR**

i. State **five** signs of illness in livestock. (5mks)

ii. Describe **three** classes of non- flowering plants. (10mks)

**QUESTION FIVE**

i. Describe **three** types of manure. (12mks)

ii. State **three** advantages of vegetative reproduction. (3mks)

**QUESTION SIX**

i. Distinguish **three** properties of acids and bases. (6mks)

ii. Describe **three** methods of grazing. (9mks)