

GRETSA UNIVERSITY - THIKA

UNIVERSITY EXAMINATIONS MAY - AUGUST 2018 SEMESTER

CERTIFICATE IN ENVIRONMENTAL SCIENCE/ HEALTH RECORDS/ COMMUNITY NUTRITION

COURSE CODE: CIEH 011

COURSE TITLE: BASIC APPLIED SCIENCE

DATE: 7 AUGUST 2018 TIME: 11.30 AM - 2.30 AM

INSTRUCTIONS TO CANDIDATES

- 1. SECTION A IS **COMPULSORY.**
- 2. SECTION B: ANSWER ANY OTHER **THREE** QUESTIONS.
- 3. **DO NOT** WRITE ANYTHING ON THIS QUESTION PAPER AS IT WILL BE AN EXAM IRREGULARITY.
- 4. ALL ROUGH WORK SHOULD BE AT THE BACK OF YOUR ANSWER BOOKLET AND CROSSED OUT.

CAUTION: All exam rooms are under CCTV surveillance during the examination period.

SECTION A

[ANSWER ALL QUESTIONS IN THIS SECTION]

MULTIPLE CHOICE QUESTIONS [1-5]

A. Scientific

C. Molecular

D. Empirical

B. Mathematical

1. The formula showing simplest whole number ratio is

[ONE MARK EACH]

2.	The rate of change of displacement is called?
	A. Velocity
	B. Acceleration
	C. Speed
	D. Force
3.	In maniadia tahla maniad nyumban indiaataa nyumban af
Э.	In periodic table, period number indicates number of A. Neutrons
	B. Protons
	C. Electrons
	D. Photons
	4. Which of the following quantities is a vector?
	A. Speed
	B. Displacement
	C. Acceleration
	D. Motion
5.	The ions having positive charges are
	A. Captions
	B. Anions
	C. Molecules
	D. Atoms

SHORT ANSWER QUESTIONS: (ANSWER ALL QUESTIONS IN THIS SECTION)

1.	Outline any 5 types of physical quantities indicating their basic unit	[5marks]
2.	By the use of a diagram, Explain briefly the bonding of sodium chloride	[6 Marks]
3.	Outline any 3 differences between mass and weight	[6 Marks]
4.	with an aid of a diagram, explain briefly the hooks law	[6 Marks]
5.	Explain briefly any 6 properties of transition metals	[6 Marks]
6.	Describe the structure of an atom	[6 Marks]

SECTION B

[CHOOSE ANY THREE QUESTIONS]

[OHOODE IN (T TIMBE QUESTIONS]				
	[6 marks]			
arties of the three states of metter	[8 marks]			
y of matter	[6 marks]			
a) Discuss the various changes of states of matter due to change in temperature [8 Marks]				
of elements in the periodic table	[12 Marks]			
	[10Marks]			
on body	[10 Marks]			
a) A body moving initially at 30m/s accelerates uniformly at two 80m/s within 10 second.				
the end of 5 seconds?	[6Marks]			
	[8Marks]			
ergy applicable in health	[6 Marks]			
	of elements in the periodic table			