



GARISSA UNIVERSITY

**UNIVERSITY EXAMINATION 2017/2018 ACADEMIC YEAR TWO
SECOND SEMESTER EXAMINATION**

SCHOOL OF EDUCATION, ARTS AND SOCIAL SCIENCES

FOR THE DEGREE OF BACHELOR OF EDUCATION (ARTS)

COURSE CODE: EPE 216

COURSE TITLE: PHYSICAL SCIENCE

EXAMINATION DURATION: 2 HOURS

DATE: 11/04/18

TIME: 3.00-6.00 PM

INSTRUCTION TO CANDIDATES

- The examination has **SIX (6)** questions
- Question **ONE (1)** is **COMPULSORY**
- Choose any other **THREE (3)** questions from the remaining **FIVE (5)** questions
- Use sketch diagrams to illustrate your answer whenever necessary
- Do not carry mobile phones or any other written materials in examination room
- Do not write on this paper

This paper consists of TWO (2) printed pages

please turn over



QUESTION ONE (COMPULSORY)

- (a) State Five disadvantages of expansion in solids [5 marks]
- (b) Explain how concept of pressure in liquids can be demonstrated to primary school pupils using locally available materials [5 marks]
- (c) Describe the method that can be used to collect pure water from sea water [5 marks]
- (d) List four properties of an acid [4 marks]
- (e) Give two example of each of the following categories of lever: first class lever, second class lever and third class lever [6 marks]

QUESTION TWO

- (a) Explain experiment on how standard 8 pupils can prepare acids from three different locally available materials [9 marks]
- (b) Using an example for each define transparent, translucent and opaque materials [6 marks]

QUESTION THREE

Write a short essay on kinetic theory of state of matter [15 marks]

QUESTION FOUR

- (a) Tabulate four differences between physical and chemical changes [9 marks]
- (b) Explain Six human being activities that contribute to global warming [6 marks]

QUESTION FIVE

- (a) Discuss the three methods of heat transfer [9 marks]
- (b) State six examples of salts and their uses [6 marks]

QUESTION SIX

- (a) Discuss the roles of four a biotic factors to living organisms [9 marks]
- (b) State six properties of carbon (iv) oxide [6 marks]

