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 **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)**

1. State Five disadvantages of expansion in solids **[5 marks]**
2. Explain how concept of pressure in liquids can be demonstrated to primary school pupils using locally available materials **[5 marks]**
3. Describe the method that can be used to collect pure water from sea water **[5 marks]**
4. List four properties of an acid **[4 marks]**
5. 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**

1. Explain experiment on how standard 8 pupils can prepare acids from three different locally available materials **[9 marks]**
2. 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**

1. Tabulate four differences between physical and chemical changes  **[9 marks]**
2. Explain Six human being activities that contribute to global warming **[6 marks]**

**QUESTION FIVE**

1. Discuss the three methods of heat transfer **[9 marks]**
2. State six examples of salts and their uses **[6 marks]**

**QUESTION SIX**

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