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**MASINDE MULIRO UNIVERSITY OF
SCIENCE AND TECHNOLOGY
(MMUST)**

MAIN CAMPUS

**UNIVERSITY EXAMINATIONS
2022/2023 ACADEMIC YEAR**

FIRST YEAR SECOND SEMESTER EXAMINATIONS

MAIN EXAMINATION

**FOR THE DEGREE OF
BACHELOR OF SCIENCE IN DISASTER PREPAREDNESS AND ENVIRONMENTAL
TECHNOLOGY**

COURSE CODE: DPG 103

COURSE TITLE: EARTH SCIENCE

DATE: 18/4/2023

TIME: 8-10 AM

INSTRUCTIONS TO CANDIDATES

This paper contains **five (5)** questions

Question one (1) is compulsory {total = 30 Marks}

Attempt any other two (2) {total = 40 Marks} from the remaining questions

Be brief and to the point

TIME: 2 Hours

MMUST observes ZERO tolerance to examination cheating

This Paper Consists of 2 Printed Pages. Please Turn Over

SECTION I: COMPULSORY {30 MARKS}

Question ONE

- a). Explain the five (5) components of the Earth whose interactions control Earth's climate **(15 Marks)**
- b). Briefly explain any two (2) commonly used theories to explain the origin of the solar system **(15 Marks)**

SECTION II: ATTEMPT ANY OTHER TWO (2) QUESTIONS {40 MARKS}

Question TWO

Using a well labeled diagram, describe the composition and structure of the earth **(20 Marks)**

Question THREE

- a) Briefly explain the plate tectonics theory **(5 Marks)**
- b) Using a well labeled diagram, describe the various boundaries of the plate tectonics. **(15 Marks)**

Question FOUR

- a) A *rock* is a naturally occurring solid material usually composed of an aggregate of mineral matter. Using this statement, explain any importance of studying rocks **(10 Marks)**
- b) Examine the different formations of metamorphic rocks **(10 Marks)**

Question FIVE

Discuss the relationship between study of plate tectonic movements and any natural disasters. **(20 Marks)**

