



GARISSA UNIVERSITY

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

SCHOOL OF EDUCATION, ARTS AND SOCIAL SCIENCES

FOR THE DEGREE OF BACHELOR OF EDUCATION (ARTS)

COURSE CODE: GEO 120 / GEO 110

COURSE TITLE: INTRODUCTION TO EARTH PHYSICAL ENVIRONMENT

EXAMINATION DURATION: 3 HOURS

DATE: 07/12/17

TIME: 09.00-12.00 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) With the aid of a diagram, describe the structure of the atmosphere. [15 marks]
- (b) Discuss the five themes of geography. [10 marks]

QUESTION TWO

- (a) Describe the components of the biosphere [9 marks]
- (b) Explain any three forces that control the velocity and direction of the wind. [6 marks]

QUESTION THREE

- (a) Outline the classification of air masses. [5 marks]
- (b) Describe any two types of fronts. [10 marks]

QUESTION FOUR

- (a) Using a well-labeled diagram, describe the formation of the following types of fog. [9 marks]
- i. Radiation fog
 - ii. Advection fog
- (b) Differentiate between the following features. [6 marks]
- i. Tornadoes and thunderstorms
 - ii. Anticyclone and cyclones

QUESTION FIVE

- (a) Briefly describe the following phenomena. [3 marks]
- i. Aphelion
 - ii. Perihelion
- (b) Describe energy flow in ecosystems. [4 marks]
- (c) Discuss the two theories that explain the origin of plate tectonics. [8 marks]

QUESTION SIX

Productivity of the ecosystem varies over space and time. Discuss the any factors that influence ecosystem productivity. [15 marks]

