



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY
SCHOOL OF SPATIAL PLANNING
UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF ARTS IN
SPATIAL PLANNING
SEMESTER 2018/2019 ACADEMIC YEAR

CENTRE: MAIN CAMPUS

COURSE CODE: PES 3122

COURSE TITLE: INTRODUCTION TO ATMOSPHERIC PROCESSES

EXAM VENUE:

STREAM: SPATIAL PLANNING

DATE:

EXAM SESSION:

TIME: 2 HOURS

Instructions:

- 1. Answer question 1 (compulsory) and ANY other 2 questions.**
- 2. Candidates are advised not to write on the question paper.**
- 3. Candidates must hand in their answer booklets to the invigilator while in the examination room.**

- Q1.**
- a) Explain the meaning of Pressure in atmospheric studies [5 marks]
 - b) Describe the formation of cyclones and anticyclones [10 marks]
 - c) Using a sketch to describe the adiabatic process [5 marks]
 - d) Describe the formation of the earlier atmospheres [10 marks]
- Q2.** Examine the thermal stratification of the atmosphere [20 marks]
- Q3.** The strength and direction of wind is a function of pressure gradient force, Coriolis effect and frictional force. Discuss. [20 marks]
- Q4.** Describe the main properties of continental polar, maritime tropical air mass and Maritime equatorial air mass [20 marks]
- Q5.** Describe the following as used in atmospheric studies
- (a) Formation of warm and cold occlusion [10 marks]
 - (b) Specific and absolute humidity [10 marks]

END