



FACULTY OF SCIENCE

GR2AFET
PHYSICAL GEOGRAPHY
SEMESTER TEST 1
13 March 2020

LECTURER
MODERATOR
TIME 80 minutes

MRS D. GREENBERG
PROF C. KELSO
MARKS 60

SECTION 1

Section 1 is to be completed in your answer books. Please number each question carefully.

- 1.1) What produces wind? (1)
- 1.2) What is the 'Thermal equator' (2)
- 1.3) What is the 'Continental effect'? (3)
- 1.4) Why do the East and West coasts of South Africa experience different climates? (4)
- 1.5) Briefly describe how a Mountain-valley breeze forms (4)
- 1.6) Earth's climate is a result of interactions among components. List these components. (5)
- 1.7) List the six **main categories** of *world climates*. Briefly describe their main characteristics and where they can be found (12)
- 1.8) Under which **South African climatic zone** can Johannesburg be classified? Briefly describe the climatic characteristics of the climate zone (5)
- [36]**

SECTION 2

Section 2 is to be completed on the attached diagram. Please detach and complete the diagram as per the instructions. Please put the page inside your answer booklet.

Draw and label the global winds, tricellular circulation and global pressure belts (highs and lows) for **both** hemispheres. Include directional arrows for the winds and tricellular circulation. Include the general location of the ITCZ. **[24]**

TOTAL 60 MARKS

Surname: _____ Initials: _____ Student number: _____

