QUESTION 1: (12 Marks)

Consult the map of KwaZulu Natal when answering the following questions:

a) Name the 3 countries bordering KwaZulu Natal.
b) Use the linear scale to calculate the distance from Ladysmith to Durban.
c) Name the two dams in B2.
d) Which mountain range separates Lesotho from KwaZulu Natal?
e) Which city has over one million inhabitants?
f) Which ocean does the Tugela River (B2) flow into?
g) If you were to travel from Durban to Newcastle (A3), which direction would you be travelling in?
h) In Lesotho, Thabana Ntlenyana is the highest peak in the Drakensberg Mountains. What height above sea level is this mountain peak?

QUESTION 2: (8 Marks)

Choose the correct answer from within brackets. Write down the answers only.

a) The instrument used to measure the strength of the earth's tremors is called a...
   (Richter Scale ; seismograph ; tectonic)

b) An example of a volcanic island is....
   (Hawaii ; Ireland ; Australia)

c) A volcano that is no longer active is called...
   (inactive ; asleep ; dormant ; extinct)

d) When the top of an under-ocean mountain appears above the ocean waters, it is called a/an....
   (peninsula ; tsunami ; crater ; island ; inlet)

e) The "Ring of Fire" which is home to 50% of the earth's volcanoes is found in the...
   (Indian Ocean ; Pacific Ocean ; Southern Ocean ; Atlantic Ocean)

f) A typhoon originates (starts) in the warm waters near the equator in the.....
   (Atlantic Ocean; Indian Ocean ; Southern Ocean; Pacific Ocean)

g) The inner core of the earth is solid rock which is as hot as ..... 
   (the outer layers of the sun ; a boiling kettle ; the solar winds)

h) An earthquake measuring 3 on the Richter Scale would be considered to be ....
   (great ; moderate ; minor)
QUESTION 3: (12 Marks)

Take note of the mark allocated to each question when answering the following questions in full sentences:

a) Which is hotter: lava or magma? Give a reason for your answer. (2)

b) Explain what a socio-economic drought is. (2)

c) Explain how trees can prevent landslides. (2)

d) Explain why trees are important during floods and how they can prevent rivers from flooding their banks. (3)

e) Explain the convergent movement of the tectonic plates. (3)

QUESTION 4: (8 Marks)

Study the picture of the aftermath of an earthquake in Nepal and answer the questions below:

![Earthquake aftermath](image)

a) Why would the rescuers be wearing hard hats? (1)

b) What could be the cause of the fire after the earthquake? (1)

c) Why would you predict that the death toll would be high in this area? (2)

d) Why would the rescuers wear masks covering their noses and mouths? (1)

e) What could they use to find survivors which are trapped under the rubble? (2)

f) What could cause cholera after an earthquake? (1)

QUESTION 5: (10 marks)

a) Draw and label a cone volcano. (7 marks)

b) Draw a hurricane and only use the following labels: strong winds, rain, eye