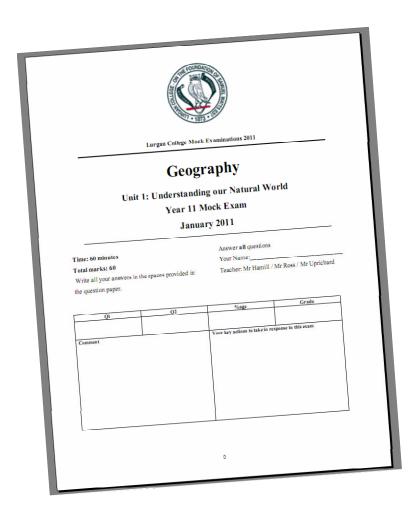
Lurgan College Geography Department

Y11 Mock Exam January 2011

Model Alswers



Use these answers to help you to learn from this exam and to identify how you might improve towards your next mock in May. The answers are taken from a range of pupils and each one earned full marks for the question. What this is then is a 100% exam paper! It can be done! Note also the comments added to help you understand **why** these answers are so good. Read it all carefully to learn how you might do better next time.

(b) Study Fig. 5 which shows the different air masses that affect the British Isles. Answer the questions which follow.

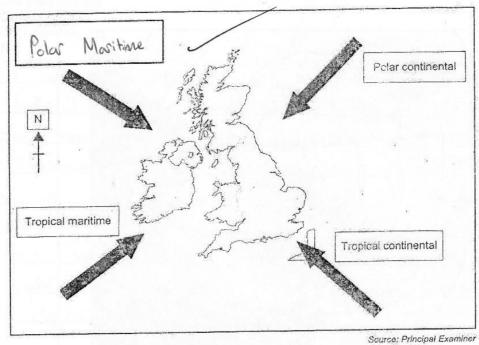


Fig. 5

- (i) Complete Fig. 5 by inserting the name of the correct air mass. [1]
- (ii) Describe and explain the temperature and moisture characteristics of a Tropical continental air mass. ase note: if you are wondering where figures 1 to 4 are they are from a different question
 - Question says 'describe and explain'_i.e. what and why?
 - This answer deals with both these aspects, so picks up full marks.
 - Remember to read the question carefully!!

(ii) Choose **two** of the elements of the weather below and explain why these conditions were experienced in the British Isles on Wednesday 16 December 2009.

- Low temperatures
- Calm conditions
- Dry conditions

Low bemperatures were experienced in the British

Isles on Wednesday 16th December as an anticyclone was over the British Isles. So, during the
winter anti-cyclone there is little or no cloud cover.

That means that more radiation and heat is loss
during the night. Clam condutions were experienced in
the British Isles, as the vsobars are far apart.

So, that fiells us that there was low wind speeds
experienced. That means that there was little or (6)
no wind.

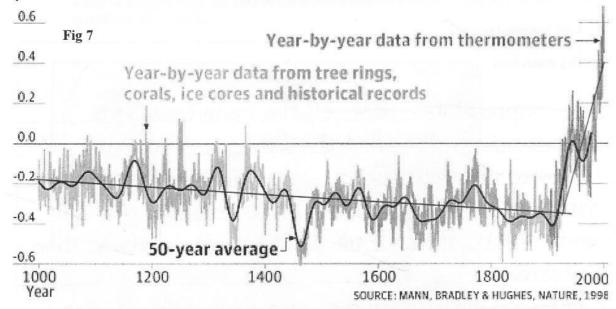
excellent answer

- detailed & V. Well

structured

- Very good SCE x2 used here.
- This means that each sentence adds detail of understanding to the answer.
- This develops the answer, giving a full and detailed explanation.

(d) Study figure 7 which shows the world's temperatures over the past 1000 years. Answer the question which follows.



(i) Describe the temperature changes as shown in fig 7.

At the start of the past 1000 years the weather was quite cast. At the start it started to decline gradually. It declined to about -0.2 or -0.1.

When the data reached the 20th century the temperatures have seemed to incline rapidly.

At that looks like it has reached it's peak temperature of about 0.6°C.

(5)

0 (), 1 . 1 . 1

- This answer uses the resource very well.
- It uses a verb and adverb to describe the different sections of the graph.
- It also quotes figures
- These are the things you should do when presented with a resource like this.

(ii) Explain one natural cause of climate change.

COR notural cause of climate change.

IS the earn may vary Depending on

temperatures.

- (2)

- Both sentences add detail here.
- The first clearly identifies the cause.
- The second explains how the cause works. Two marks well earned!

(iii) With reference to a place you have studied, outline the impacts of climate change on the environment, society and economy.

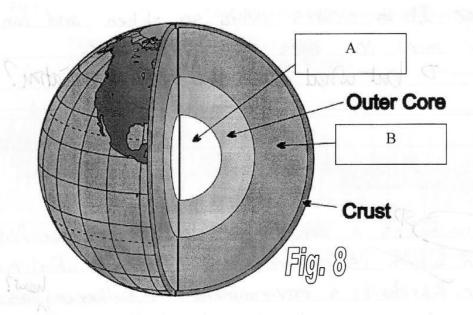
Kiribati, Pacific Ocean-The effects of Climate change on a LEDG Environment-As the highest point in Kiribati is only 20m above sea level this acts as a major problem. The IPCC has predicted an socm rise in sea level by 2100 this will be a major issue for such a low lying Country. Water storage is becoming a major issue as it has become contaminated by the sea water seeping through the ground. Sea water has also damaged the modisinfrastructure this is a major problem as the narrowest forbuilth a road is only 20m. connecting the major fort of the island with the coral part.

Society - many inhabitants living here are becoming worried and maning (6) out of the Country. The current net my movement is -2.87 Per thousand. This will become a major problem, as it will be a whole notion looking for somewhere to live which will be a hard Problem to overcome. More people moving out than coming in.

Economy- As kiribabi is so small and its rematness it is a very poor country. This will have a major effect as if they are poor they will have bo rely on aid from other countries, to help them if they are going to be attended. The Australian government has already given the worlds bank, Kiribabis alimbe change adaption Project 3 million us dollars and 1 million dollars to help water storage.

- A very good case study question as it contains lots of facts. You simply will not score full marks if you don't include these.
- Also, it uses the words of the question (environment, society and economy) to provide a clear structure to the answer.
- Finally, the points are developed to show understanding. Full marks!

2 (a) Study Fig. 8 which shows the structure of the Earth. Answer the questions which follow.



Write the labels for A and B in the lines below.

(1 mark) mark)

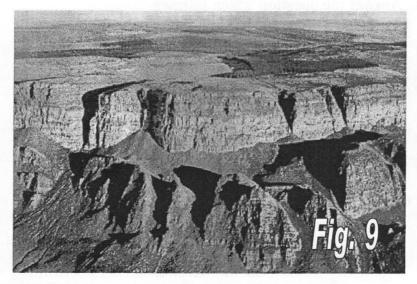
Explain why plates move.

and pushes the plate (ridge push).

- Very good detail of understanding communicated here. Geographical terms are also used to good effect.

exallem ou.

(b) Study Fig. 9 which shows the edge of the Antrim Plateau, a lava plateau made of basalt which stretches to the north coast of Northern Ireland. Answer the questions which follow.



(i)	State the rock type to which basalt belongs.	
- A-	vancous.	(1 mark

(ii) Explain the formation of a lava plateau (you can use an example to help).

A lava plabeau vs formed when pelava re

Lava spreads and cools it creates a targe area of flat bopp tagers. topped layers. These layers

mountains, # for example like the Antixim

Plateon

(4 marks)

detailed &

- As above, very good detail of understanding communicated here.
- Geographical terms are also used to good effect.

(c) Study **Table 1** which shows some differences between earthquakes in different places. Answer the question which follows.

Table 1

Year	Area	Country	MEDC or LEDC	Magnitude Richter Scale	Number of people killed
1964	Anchorage	USA	MEDC	8.6	130
1985	Mexico City	Mexico	LEDC	7.8	4,600
1995	Kobe	Japan	MEDC	7.2	5,500
2004	Sumatra	Indonesia	LEDC	9.0	250,000

© CCEA

Using **Table 1**, state fully **two** reasons why more people are killed in some earthquakes than others.

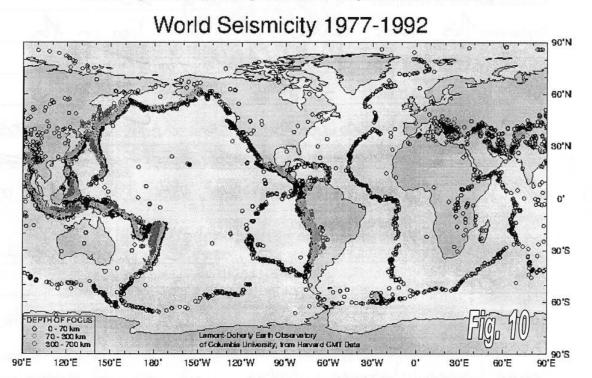
Anchorage had men deaths than Mexico City because
Mexico city is an LEDC. So Mexico city would not of
been built up to well for earthquakes. This would of
caused more buildings to of collapsed killing more
people.
Sunatra had a larger be death total than Kobe because
Suratra had a larger earthquake. Sunatra had an earthquake
of 9.0 and Kobe had a 7.2 on the richter scale, Sunda:
earthquake was lookines Abbigger. This would of filled
more people.
(5 marks)

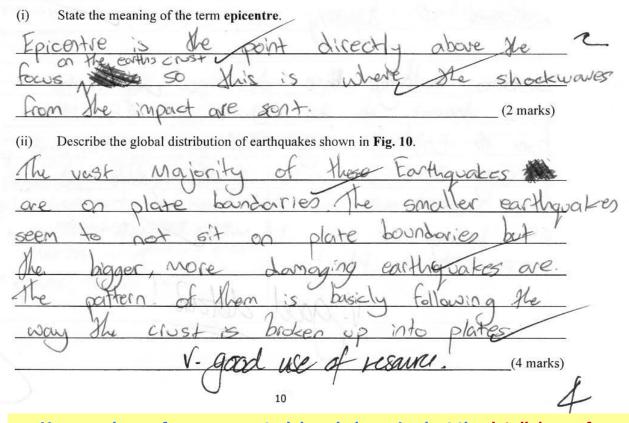
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excellent!

- Again, very good use of resource material (Table 1).
- The factors discussed are taken from the Table, which is vital in a question like this.
- Places are referred to and figures are quoted don't forget to do this!

(d) Study Fig. 10 which shows the global distribution of earthquakes (greater than magnitude 5) in 2003. Each dot is the epicentre of an earthquake. Answer the questions which follow.





- Very good use of resource material again here. Look at the detail drawn from the map. This person has used it very effectively.
- Earthquake distribution is linked to the plate boundaries. Many of you did this.
- But look also at the detail taken from the key about where the smaller and larger earthquakes are found. Did you notice this level of detail?

(e) (i) Explain the cause of an earthquake you have studied in an LEDC.
Location and date of earthquake Haiti 2010
Explanation Two plates were trying to slip past each
other. The were moving at about 2 cm per year. When
the pressure got too great, the plates suddedy Slipped
post enchather resultingin an enrongmake. Along 65 hm
of the fault, the grand moved 2
2.1.

- The question asks for the cause, and this answer gives the cause. Sounds simple, but some of you did not do this!
- A clear understanding of how earthquakes occur is communicated here.
- Notice also the case study facts. Must be included!

(ii) Describe three impacts the earthquake had.

Short beam impacts on people were 230,000 deaths,

300,000 injures and hospitals destroyed

Long term impacts on people were 1000,000 people

homeless and a desease called cholera broke out

killing 337 people and causing 4764 confirmed cases.

The disease would break out quickly by drinking

dirty water and living close together in camps.

Short ferm impacts on relama economy were 30,000/

egeneral comercial of buildings destroyed and a joint

collapsed letting out 4,000 inmotes.

(6 marks)

- Three impacts asked for, three impacts given! Make sure you answer the question asked!!
- For each point, at least one fact is given.
- Also, points are expanded appropriately to earn the marks. Full marks here again!