

SECONDARY SCHOOL ANNUAL EXAMINATIONS 2009

Directorate for Quality and Standards in Education
Educational Assessment Unit

FORM 4

GEOGRAPHY OPTION

TIME: 1h 30min

Name: _____

Class: _____

Answer all Questions

Map Reading and Interpretation

1. Refer to the given OS Map and then work the following exercise.

(a) Name the human features at 963392 and 955383. Choose from *farmhouse*, *beacon*, or *lighthouse*.

_____ 2 marks

(b) What do the black markings all around the coast of Dinas Head 0040 on the map show?

_____ 2 marks

(c) Give the type of settlement pattern for the following locations. Choose from *Nucleated*, *Linear*, *Dispersed*

Settlement	Pattern
Goodwick	
Fishguard	

2 marks

(d) What has influenced the present shape of Goodwick and Fishguard?

_____ 2 marks

(e) In which direction is the River Afon Gwaun following? Give a reason for your answer.

_____ 3 marks

- (f) According to the following map extract the scale is 1:50,000 or 2 cms represents 1km. Enlarge this scale to 1:25000 (4 cms represents 1 km.) and draw Dinas Head double the size than as it is drawn on the given map. 4 marks

Location and Places

2. Refer to the given map of the world. With the help of the clues and the letters marked a to j name the ten physical and human features. Choose from the following locations:
Parana River, Yangtse River, Three Gorges Dam, Itaipu Dam, Rockies, Alps, Mt Kilimanjaro, Mt Fujiyama, Andes, Himalayas

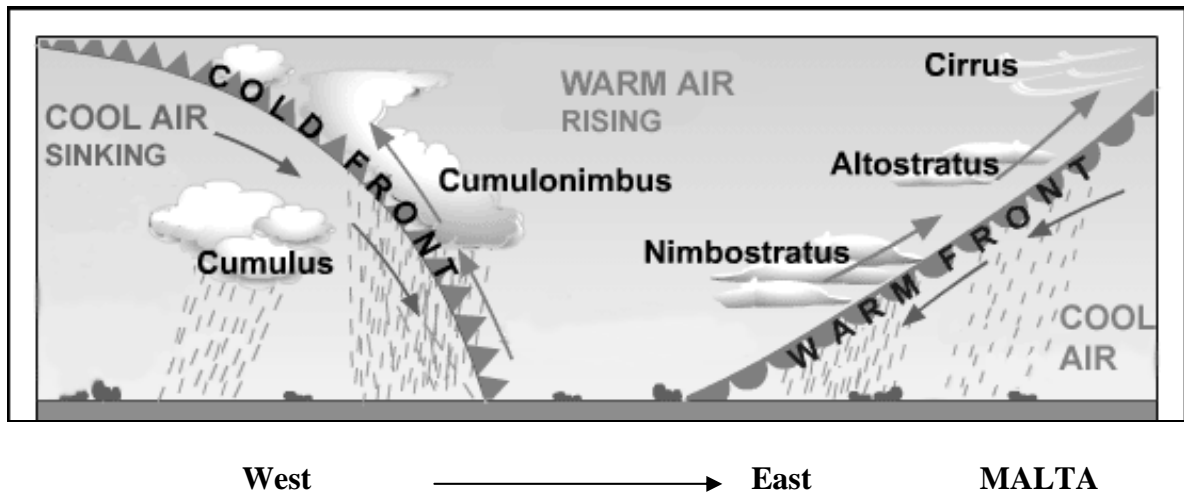
These mountain chains are found along the western part of America	a. _____ b. _____
The highest mountain chain in the world	c. _____
Many tourists visit these mountains in Europe.	d. _____
This volcano is located in Japan	e. _____
This volcano lies in Tanzania close to the border with Kenya.	f. _____

This dam is being built in China and it harnesses the water of a particular river.	g. _____ Dam h. River _____
This dam was built in Brazil and it uses the water of a particular river to produce HEP.	i. _____ Dam j. River _____

10 marks

Weather and Climate

3 (a) With the help of the given diagram continue the sentences to explain how the weather changes as the depression passes over Malta.



The first sign of the depression are _____.

As the depression approaches the pressure _____.

Steady rain from the nimbostratus clouds occurs when Malta ends up _____.

Heavy rain and thunderstorms affect Malta when _____.

Once the cumulus pass the sky _____.

When Malta is within the cold sector the weather _____.

The depression will continue its journey towards _____.

7 marks

3 (b) Fill in the missing details from the following table using these terms:

heat, cloud cover, hot, light, fog and frost, angle, thunderstorms, cooling

Characteristics of Summer Anticyclones	Characteristics of Winter Anticyclones
1. _____ days with few or no clouds.	1. Cloudless skies but less _____ due to the low _____ of the sun.
2. _____ winds	2. Temperatures drop, making the days cold and the nights even colder due to the lack of _____.
3. _____ of ground leading to morning mist.	3. _____ forming at night as condensation occurs near to the ground.
4. _____ a risk under heat wave conditions.	

8 marks

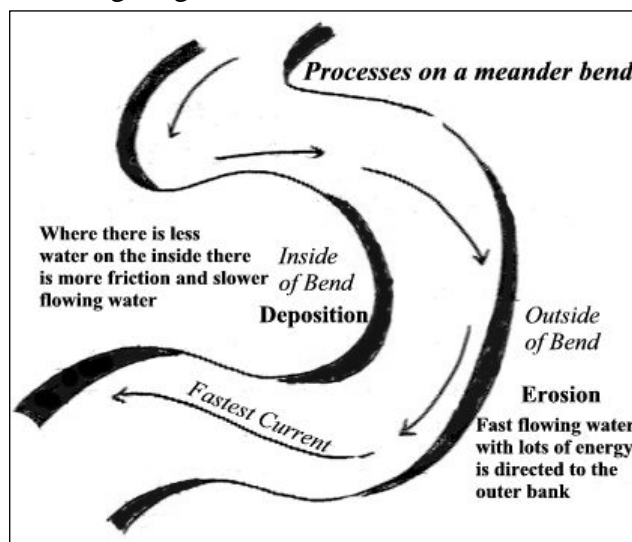
Landforms and Processes

4 (a) Continue the following sentences by giving relevant geographical information.

- i. An active volcano _____
- ii. A dormant volcano _____
- iii. An extinct volcano _____
- iv. The Richter Scale is used _____
- v. The instrument used to measure earthquakes is _____

5 marks

4 (b) Examine the following diagram.



4 (b) Explain these processes by which a river can erode its banks and bed:
Abrasion or Corrasion, Solution or Corrosion, Hydraulic Action

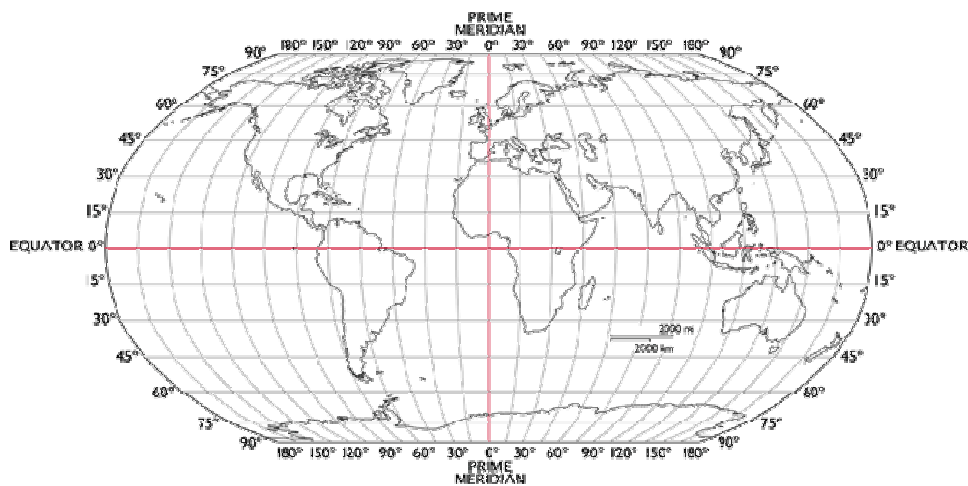
(i) _____

(ii) _____

(iii) _____

6 marks

5 (a) The following world map shows the grid formed by the lines of latitude and longitude. Write three sentences about either latitudes or longitudes.



3 marks

5 (b) Explain what is the International Date Line.

2 marks

5 (c) If the time at the Prime Meridian is 12.00 noon what time is it at these two locations?

Prague Czech Republic 15 degrees east _____

Guatemala City 90 degrees west _____

4 marks

Socio-Economic Human Systems

6 (a) Read the following information about Italy’s ageing population and then continue the related sentences.

<p>Italy’s Ageing Population - <i>In 2006, the population of Italy numbered 58.8 million. This population has only grown by 3.9% since 1986. Italy’s ageing population is due to longer life expectancy and low birth rates. Those aged over 65 are growing in numbers. They numbered 11.6 million in 2006 compared to 8.2 million of those aged 0 to 14 years. The former age group has grown by 10.4% between 2001 and 2006 whilst the latter group has grown by 1.9%;</i></p>
<ul style="list-style-type: none"> <i>There are 12.7 million pensioners in Italy, accounting for 21.6% of the population in 2006 compared with 18.0% for the Western European average.</i>
<p>Source Euromonitor International</p>

- The reasons for Italy’s ageing population _____
_____.
- Between 2001 and 2006 the age-group aged over 65 has increased by _____.
- The figure for Italy at 21.6 % is 3.6% higher than that of _____.
- The Italian government faced by an ageing population has to spend an increasing amount of money on _____.

6 marks

6 (b) Link the following descriptions to the right settlement zone:

<p>a. The most accessible part of a town or city. Most road and rail routes meet there so it has become a prime site for several types of land uses. Shops, banks, and offices all compete for the limited space and push up the land values.</p>		<p>Rural-urban fringe</p>
<p>b. The area around the edge of a city. It is where the green fields and open spaces meet the continuously built-up areas of the city. The open land around the edge of the city is in great demand for housing, industry, shopping, and recreation.</p>		<p>Out of town shopping centres</p>
<p>c. These are large built superstores and shopping centres located in the rural-urban fringe. Access is easy for the shopping centres are located next to main roads and motorway junctions. There are also large car parks for use by the customers.</p>		<p>Green belts</p>
<p>d. In land use planning areas of largely undeveloped or agricultural land surrounding urban areas are protected from further development. The aims are to protect the environment and ensure that urban dwellers have access to the countryside for their recreational and educational needs. The unique character of rural communities is also safeguarded.</p>		<p>CBD</p>

4 marks

7. Copy the following characteristics under the right type of farming practised in Brazil:
- Known also as 'Slash and Burn Agriculture' for forest areas are cleared to create small farms.
 - Actually this type of farming does less damage to the environment than commercial agriculture.
 - A lot of labour is needed and so companies take advantage of the cheap wages.
 - Being dependant on one product can also be a risk financially if the price falls in the world market.
 - The Yanomami Tribe of Brazil practise this type of farming.
 - The crops grown are manioc, yams, beans, and pumpkins.
 - This is commercial farming which was developed by European and North American merchants.
 - The natural forest is cleared and a single 'cash crop' is grown for export.
 - Every 4 to 5 years the tribe has to shift to another part of the forest.
 - Lots of capital is needed to clear and irrigate the land.

Shifting Agriculture	Plantation Farming

10 marks

Environmental Concerns

8. Give the relevant cause or possible solution for the following environmental concerns.

Environmental Concern	Causes	Possible solutions
Soil erosion	Up and down ploughing	
Soil erosion		Crop Rotation
Soil erosion	Loss by heavy rain	
Loss of wetland areas		
Removal of rubble walls		Conserved for they serve as a habitat for various creatures
Flooding	Deforestation	
Flooding		Raising the embankments

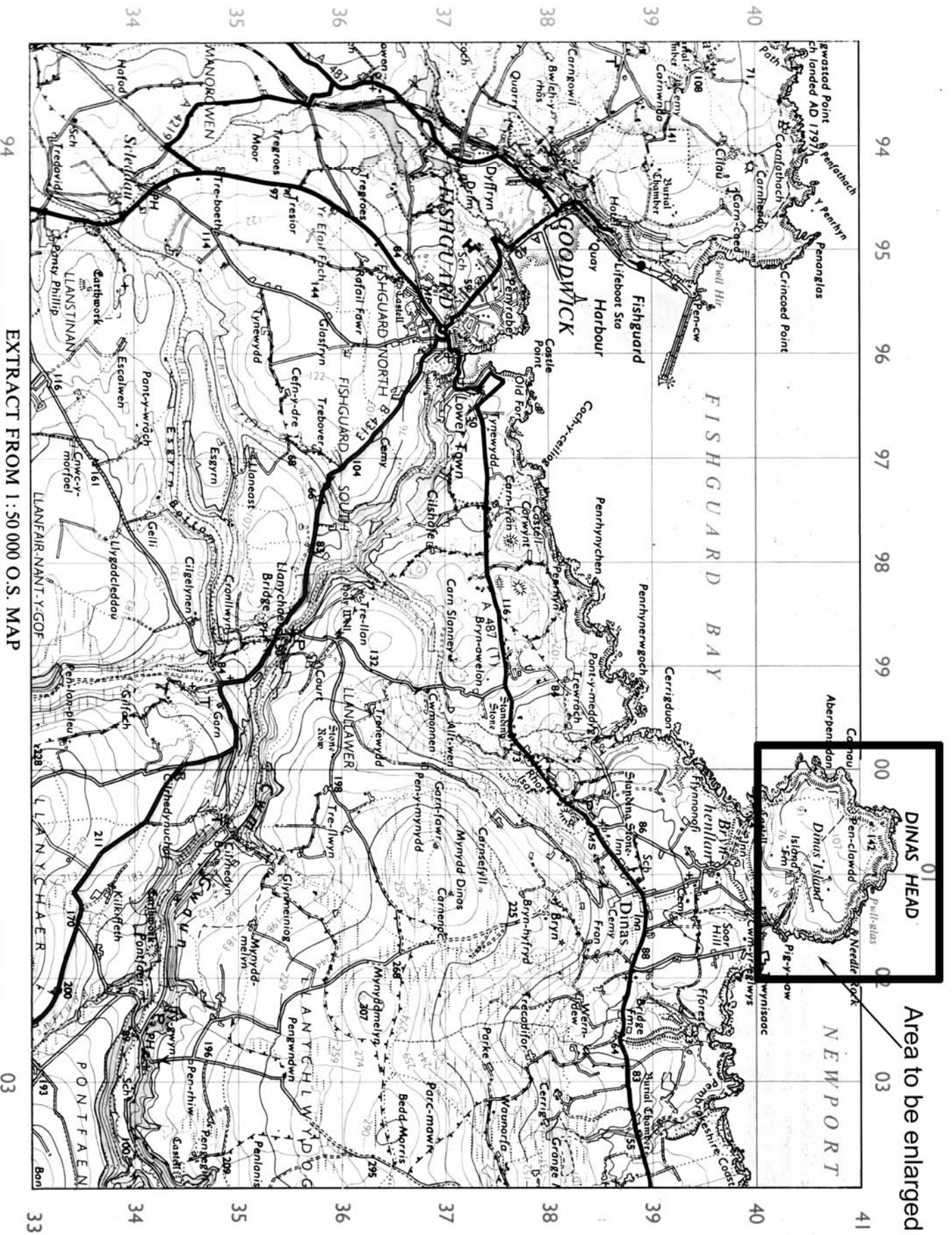
8 marks

9. Give three advantages and three disadvantages of the Three Gorges Dam of China.

Advantages	Disadvantages

12 marks

OS Map for use with Question 1



EXTRACT FROM 1:50 000 O.S. MAP

Map of the World for use with Question 2

