

JUNIOR LYCEUM 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.

_____ 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:

Settlement	Pattern
Goodwick	
Fishguard	

3 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.

_____ 2 marks

- (f) According to the OS map extract the scale is 1:50,000 or 2cms represents 1km. Enlarge this scale to 1:25000 (4cms represents 1km.) 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.

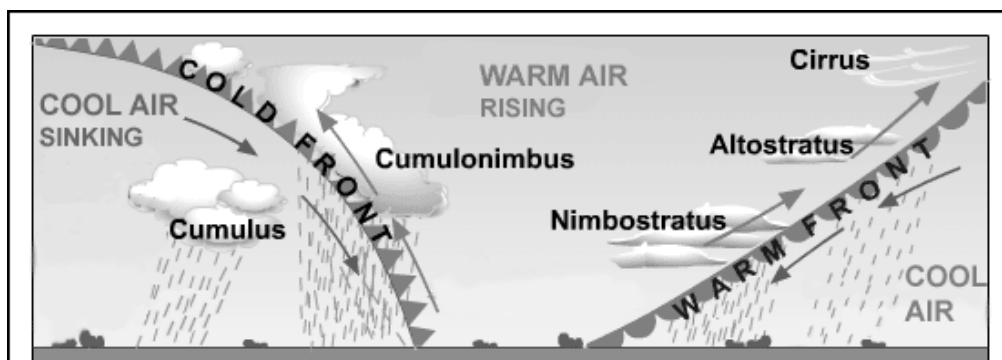
These mountain chains are found along the western part of America	a. _____ b. _____
The highest mountain chain in the world	c. _____
Many tourists visit these mountains in Europe.	d. _____

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 explain how the weather changes as the depression passes over Malta.



West → East MALTA

7 marks

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

Characteristics of Summer Anticyclones	Characteristics of Winter Anticyclones
1. Hot days with few or no _____.	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

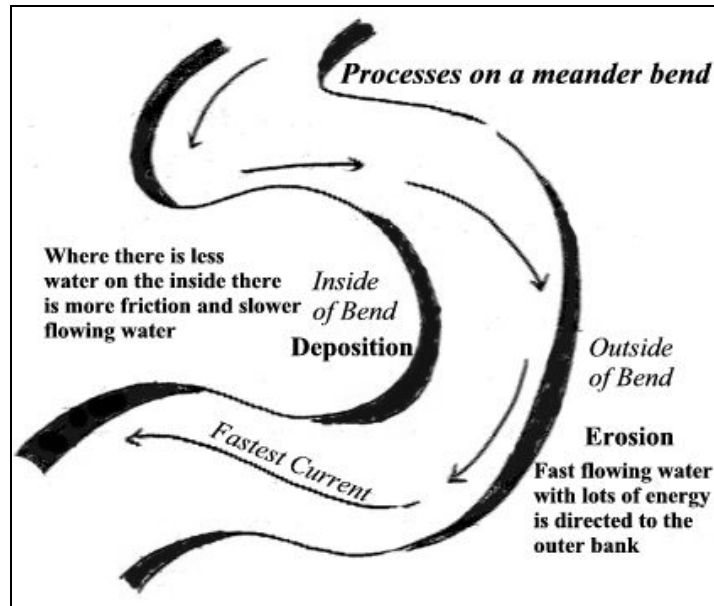
Landforms and Processes

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 two plate boundaries associated with volcanic activity are _____
- v. The epicenter of an earthquake is _____
- vi. The Richter Scale is used _____
- vii. The instrument used to measure earthquakes is _____
- viii. Plates move because of _____
- ix. The collision plate boundaries are found where _____
- x. A composite volcano is made up of _____

5 marks

- 4 (b) Examine the following diagram.



- (b) i. What is happening on the outside of the meander (bend)?

2 marks

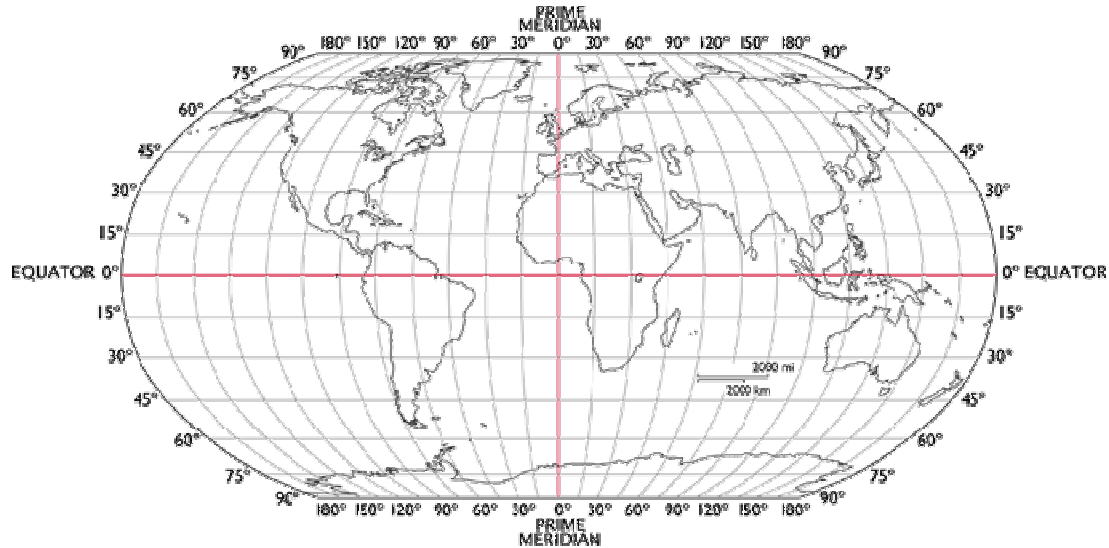
- (b) ii. What is happening on the inside of the meander (bend)?

2 marks

- (b) iii. Name and briefly explain two processes by which a river can erode its banks and bed.

2 marks

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



3 marks

- (b) Explain how time is linked to the lines of longitude.

2 marks

- (c) If the time at the Prime Meridian is noon what time is it at the following 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 answer the questions below.

Italy's Ageing Population

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%;

- *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.*

Source Euromonitor International

- i. What are the main reasons leading to an ageing population in Italy?

- ii. Which age group has increased by 10.4% between 2001 and 2006?

- iii. Comment on the percentage of pensioners in Italy when compared with that for the Western European average.

- iv. What are the main problems caused by Italy's ageing population?

6 marks

- 6 (b) Explain the following terms regarding settlement:

CBD _____

Rural-urban fringe _____

Out of town shopping centres _____

Green belts _____

4 marks

7. Give the main characteristics of these two types of farming practised in Brazil:

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

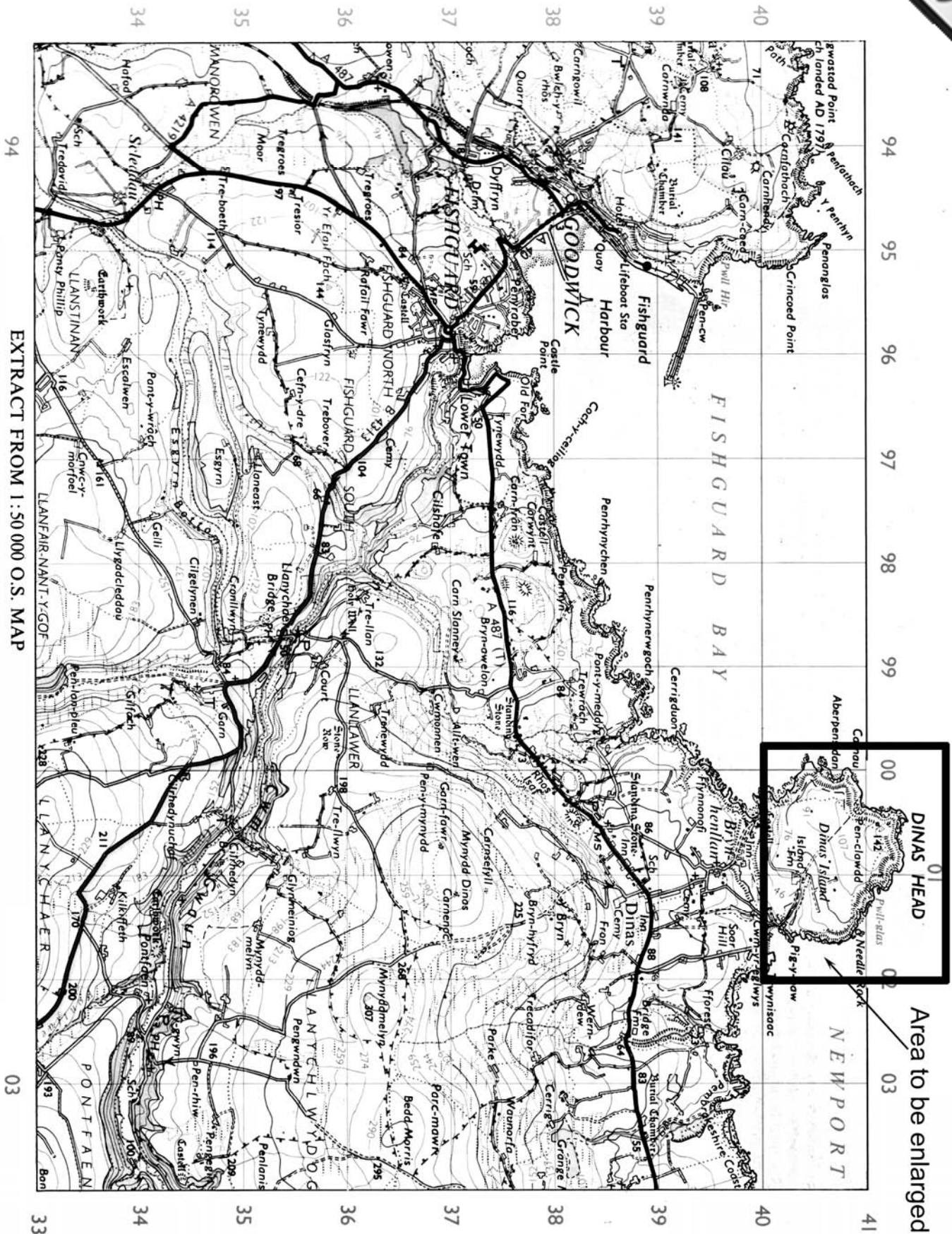
8 marks

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



Map of the World for use with Question 2

