JUNIOR LYCEUM ANNUAL EXAMINATIONS 2008

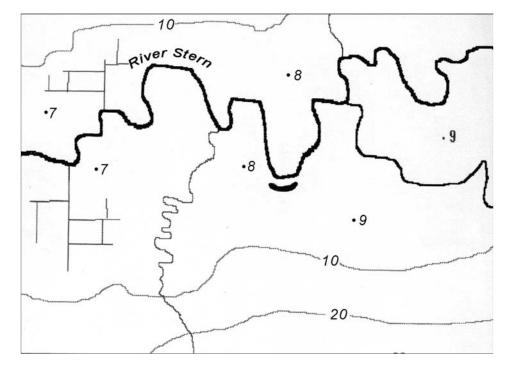
DIRECTORATE FOR QUALITY AND STANDARDS IN EDUCATION Educational Assessment Unit

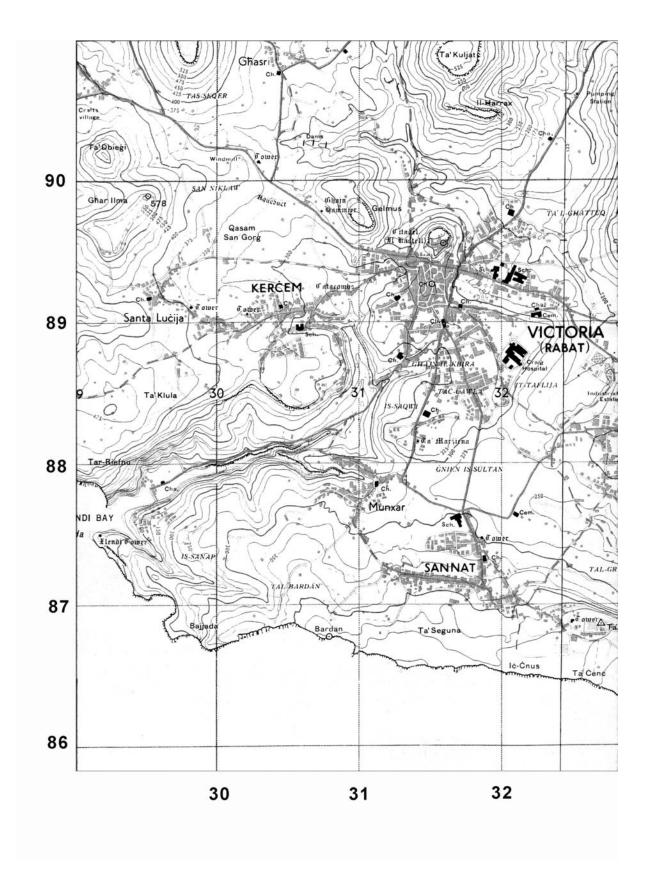
| FORM IV | GEOGRAPHY OPTION | TIME: 1h 30 min |
|---------|-------------------------|-----------------|
| | | |
| Name: | | Class: |

Answer ALL questions.

1. Map Reading and Interpretation

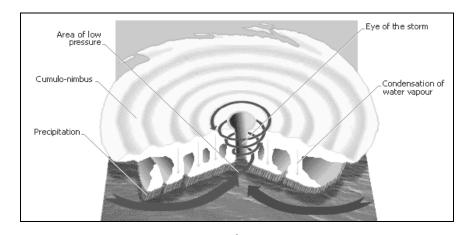
a. Examine the following map and then work out the exercise below.





| | ii. Give reasons to explain why Victoria became such an important settlement in Gozo. to evidence from the OS Map given. | Refer |
|------|---|-------------|
| | | |
| ••• | | 2 marks |
| iii. | Give the six figure grid reference of Santa Lucia | 1 mark |
| iv. | 'The area around Santa Lucia is still in a rural state.' Indicate the map evidence which su this statement. | ipports |
| | | |
| ••• | | 2 marks |
| v. | In the space below reduce to half size the area covered by the four grid points: 30 90; 30 88; 32 90; 32 88 Then draw the main roads within this reduced section of the given 0S Map. | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | d marks |

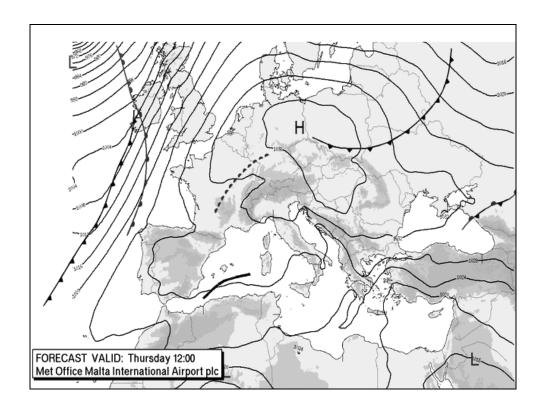
2. Weather and Climate



a. Work out the exercise below related to tropical cyclones or hurricanes.

| August 2005. | |
|--|---------|
| | |
| | |
| | |
| | 3 marks |
| What were the main destructive effects of Hurricane Katrina? | |
| | |
| | |
| | 2 marks |

- b. Examine carefully the given weather map:
- i. Mark on the diagram the position of the following:
 - a. Warm Front
 - b. Cold Front
 - c. Occluded Front
 - d. Depression



| ii. Explain how the isobars are showing that the weather over Germany is different than the weather of the United Kingdom? |
|--|
| |
| |
| |
| |
| |
| 4 mark |
| iii. Give the main details regarding the weather of the Maltese Islands as shown by the given map. |
| |
| |
| |
| 2 mark |

3. Landforms and Processes

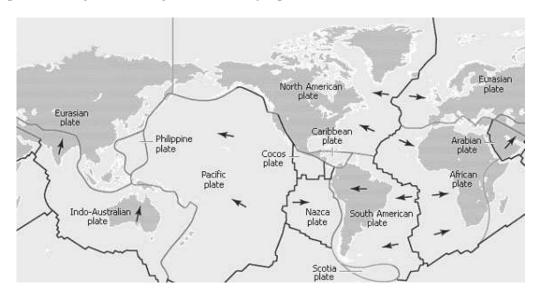
a. Calculate the timings for the following locations when at the Prime Meridian the time is 12.00 noon.

| Country/City | Time calculated on | Time |
|--------------------|--------------------|------|
| | longitude | |
| Malta | 15 degrees east | |
| Canberra Australia | 150 degrees east | |
| Vancouver Canada | 120 degrees west | |
| Fiji | 180 degrees east | |
| Mexico City | 90 degrees west | |

5 marks

| b. | Give the main characteristic for each of the three horizons forming a typical soil profile | |
|------|--|---------|
| i. | | |
| ii. | | |
| iii. | | |
| | | 3 marks |
| C | Explain the diagram showing the earth's major plates | |

c. Explain the diagram showing the earth's major plates.



| • • | • • | • • | • • | • • | • • | • | • • | • • | • • | • • | • • | • | • • | • • | • • | • | • • | • • | • • | • | • • | • • | • | • • | • • | • | • • | • • | • | • • | • • | • • | • • | • | • • | • • | • • | • • | • • | • • | • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | ٠. | • • | • • • | • | • • | • • | • • | • • | ٠. |
|-----|-----|------|-----|-------|-------------------|---|---|-------|---|-------|-----|---|-----|-----|-----|---|-----|-----|-----|---|-----|-----|---|-----|-----|---|-----|-----|---|-----|-----|-----|-----|---|-----|-----|-----|-----|-----|-----|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|-------|---|-----|-----|-----|-----|----|
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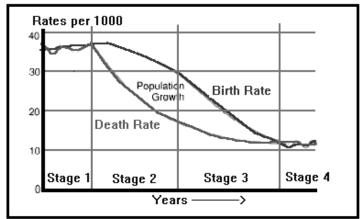
| | | | 2 marks |
|----|-----|--|---------|
| d. | Fil | l in the blanks to complete the details regarding Conservative Plate Boundaries: | |
| | i | volcanic activity at this type of boundary | |
| | ii | One plate is simply past the other. | |
| | iii | Sections of rock get and are dragged past each other. | |
| | iv | builds up and the rocks jerk causing an earthquake. | 2 marks |

The Kobe earthquake hit Japan on January 17, 1995 at 5:46:46 a.m. and lasted for approximately 20 seconds. This earthquake measured 7.3 on the Richter magnitude scale. The focus of the earthquake was located 16 km beneath its epicentre, on the northern end of Awaji Island, 20 km away from the city of Kobe (a very populated city) with a population of 1.5 million. This is in the middle of the fault zone of the Pacific, the Eurasian and the Philippine tectonic plates.

| | Describe the primary and secondary effects of the Kobe earthquake that hit Japan in 1995. |
|----|---|
| | |
| | |
| | |
| | |
| | 3 marks |
| f. | Explain the following processes by which a river erodes its banks and bed – |
| | i. Corrasion or abrasion |
| | |
| | ii. Attrition |
| | |
| | iii. Hydraulic Action |
| | |
| | 3 marks |
| g. | Link the following processes by which a river transports its load to the statements given below: <i>Traction, Suspension, Solution, Saltation</i> |
| | Process of river transport by which materials are held dissolved within the water: |
| | Process of river transport by which particles are held within the water: |
| | Process of river transport by which particles are rolled along the bed of the river: |
| | |
| | Process of river transport by which small particles bounce along the bed: |
| | |
| | 2 marks |

4. Socio-Economic Human Systems

The Demographic Transition



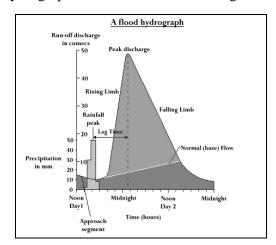
| | | Years ———> |
|-----|--------------------------|--|
| a. | Associate one coumodel – | untry for each of the four stages shown above in the Demographic Transition |
| | | Stage 1 |
| | | Stage 2 |
| | | Stage 3 |
| | | Stage 4 |
| | | 2 mark |
| b. | Transition Model | |
| | | |
| | | |
| ••• | | 2 mark |
| c. | | agraph to link the following Geographical Terms regarding Urban Settlements sibility, CBD, high land values, dense traffic, high density of services |
| | | |
| | | |
| ••• | | |
| ••• | | |

| a. | indicate rapid urban growth within this city in | * | vnicn |
|-------|---|--|---|
| | • | | |
| | | | |
| | • | | |
| | • | | |
| | • | | |
| | | | 4 marks |
| e. | Explain briefly the meaning of Organic Farm | ing - | |
| ••• | | | |
| ••• | | | • |
| • • • | | | ••••• |
| | | | 3 marks |
| f. | Fill in the following table to show the three materials farming in the Ganges Valley India: | nain differences between farming in Denma | ark and |
| | Denmark | India | |
| | | | |
| | | | |
| | | | |
| | | | 3 marks |
| ~ | Cive the magning of the town CAD in relation | to the Evyponeon Haion | 3 marks |
| g. | Give the meaning of the term CAP in relation | to the European Omon. | |
| ••• | | | • |
| ••• | | | 2 marks |
| | | | 2 marks |
| 5. | Environmental Concerns | | |
| a. | List four measures that farmers can take to migrow crops or rear animals. | inimise soil erosion within the area where | they |
| | • | | |
| | • | | |
| | • | | |
| | • | | |

Wetland means simply land that is wet, land that is saturated with water. The fens and moors of Europe, the waterholes of the African Savannah, the bogs, marshes, ponds and wet meadows of western Washington - all of these are wetlands.

| b. 1 | Explain the problems created when wetlands a | re drained for farming: | |
|------|--|--|-------|
| •••• | | | |
| •••• | | | • • • |
| •••• | | | |
| •••• | | | • • • |
| •••• | | 5 mar | ··· |
| c.] | Examine the following details about the Three | Gorges Dam being built in China. | |
| Son | ne facts about the Three Gorges project: | | |
| _ | ect expected to take 17 years; completion expolved in the project. | ected in 2009. An estimated 250,000 workers an | re |
| | Three Gorges Reservoir will inundate 632 squale will be resettled by the dam. | uare kilometres of land. An estimated 1.2 million | n |
| | project's 26 hydropower turbines are expected h of China's output. | I to produce 18.2 million kilowatts, up to one- | |
| | amount of concrete totals 26.43 million cubic ently the world's largest hydroelectric dam. | meters, twice that of the Itaipu project in Brazil | , |
| | Give two advantages and two di | sadvantages of the Three Gorges Dam. | |
| | Advantages | Disadvantages | |
| | | | |
| | | | |
| | | | |
| | | | |

d. Examine the following hydrograph and then fill in the missing details below:



- 1. is the velocity of the river multiplied by its volume. It is the amount of water in the river passing a given point at a given time, measured in cubic metres per second. It depends upon the river's velocity and volume.
- 2. is the speed of the river. It is measured in metres per second.
- 3. is the amount of water in the river. It is the cross-sectional area of the river's channel measured in square metres.

 3 marks

6. Location and Places

Refer to the given map of the world.

With the help of the clues and the numbers marked on the given map of the world name the following nine physical features and one human feature.

- 1. The mountains of the reach into seven countries namely Venezuela, Colombia, Ecuador, Peru, Bolivia, Chile, and Argentina.
- 3. The mountain range is located mostly in South Africa. It extends for about 1,125 km from Mpumalanga to Eastern Cape Province, and forms the eastern boundary of Lesotho and, in part, of the Free State.
- 5. The is the longest river in the world, measuring 6,671 km from its remotest headstream in Burundi to its mouth at the Mediterranean Sea.

| 7. | dam is a joint undertaking between Brazil and Paraguay. The dam commenced operations in 1984 and the last of its turbines was installed in 1991. |
|-----|--|
| 8. | Mount is an active volcano in the Philippines. It is almost 90 km north of the capital, Manila. |
| 9. | The highest mountain in Africa is the volcano in north-eastern Tanzania, near the border with Kenya. |
| 10. | The volcano in central Ecuador is situated in the Andes, near Quito. It is one of the highest active volcanoes in the world. |

