DIRECTORATE FOR QUALITY AND STANDARDS IN EDUCATION

Department for Curriculum Management and eLearning Educational Assessment Unit

Annual Examinations for Secondary Schools 2011

FORM 4

GEOGRAPHY (OPTION)

Time: 1h 30min

For Examiner's use only.

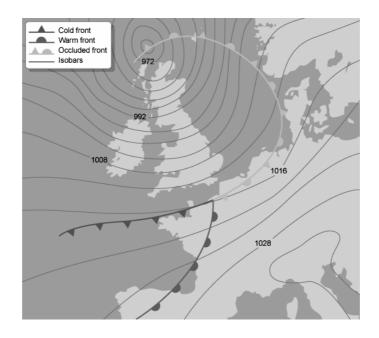
Question No.	1	2	3	4	5	6	7	8	9	Written Exam	Fieldwork Report	Total
Maximum Mark	12	12	8	8	12	9	9	8	12	90	10	100
Score												

The total mark for this paper is 90. Answer all questions in the space provided. Write your answers neatly and in good English.

Name: _____ Class: _____

Weather and climate

Question 1



Underline the **correct word** from the brackets.

Fronts occur where (three, four, two) different air masses meet. Warm fronts are formed when (warm, cold, frozen) air rises over a mass of cold air. As the air lifts it cools and condenses the water vapour as wide, flat sheets of (rain, snow, cloud). A cold front is the zone where a cold air mass is replacing the warmer air mass. The cold air is following the warm air and gradually moves (besides, underneath, above) the warmer air. When the warm air is pushed (upwards, sidewards,

Student Bounty.com downwards) it will rain heavily. As the cold front passes, the clouds roll by and the air becomes cooler. Occluded fronts occur at the point where a cold front takes over a war Occluded fronts are usually associated with the air (becoming wetter, becoming drier, remain the same).

Landforms and Processes

Que	estion 2
Ans	swer the following questions on 'Plate Tectonics'.
iii.	Name the different types of plate boundaries:
b.	Fill in the blanks of the following statements.
i.	Subduction zones involve an plate sliding beneath a
	continental plate.
ii.	As the oceanic plate is forced below the continental plate it
	due to the heat resulting from friction caused by contact with the continental plate and due to
	the increase in temperature as it re-enters the mantle.
iii.	Being lighter than the mantle this magma rises up through in
	the continental crust to the surface to form volcanoes, as for example Chimborazo and
	Cotopaxi.
iv.	Mid-Ocean are formed when two plates are pulling apart
	from each other so hot magma (liquid rock) emerges from the mantle and oozes forth as lava to
	fill the crack continuously created by plate separation.
v.	The Americas are moving away from Eurasia and Africa so this means that the Atlantic Ocean
	is becoming
vi.	San Andreas Fault, at the junction of the Pacific and North American Plates, is an example of a
	plate boundary.
vii.	The American Plate moves more slowly than and at a slight angle into, the Pacific Plate so
	instead of slipping evenly past each other these two plates tend to stick. When sufficient
	pressure builds up one plate is ierked forward and

Э.	Imagine that as an MP (Member of Parliament) you form part of a committee to pla
	how to minimise the effects of earthquakes. Give three suggestions.

Question 3

Using the 4 words below, link the right processes by which the river transports its load to the given explanations.

Solution Suspension Traction

Processes	Explanations
	Large particles such as gravel and coarse sand are lifted and dropped along the river, so they bounce along the river bed in a series of bed.
	Larger particles like pebbles and boulders roll and slide along the river bed.
	Dissolved materials containing minerals like calcium and sodium are carried in the water. They cannot be seen by a naked eye as they get dissolved.
	Smaller particles such as clay, silt and fine sand are carried along without contact with the river bed as they are light and tiny. Materials carried in suspension usually form the greatest part of the total river bed.

8 marks

Socio-Economic Human Systems

Question 4





The two pictures show the CBD and the shanty town of Sao Paolo in Brazil.

Continue the following sentences about the **main problems** resulting from the rapid urban growth of Sao Paolo and the attempts being made to **solve them**.

i.	Sao Paolo continues to attract more migrants but these people cannot find
ii.	Poor people end up living in
iii.	The city authorities of Sao Paolo have been unable to provide all residents with public services
	such as
iv.	For most of the day the traffic is
v.	The local government of Sao Paolo is setting up assisted schemes to improve
vi.	Existing homes may be improved by rebuilding the houses with
vii.	Self-help schemes have been set up to encourage groups of people to help
viii.	The local authority will provide the breeze-blocks and roofing tiles and the group will
	8 marks

Question 5





Match the three types of farming given below with the corresponding characteristics.

Shifting Agriculture Intensive Commercial Farming Subsistence Farming

Characteristics	Type of Farming
Typical characteristics include excessive use of	
chemical fertilizers, pesticides, herbicides, hi-	
tech machinery per unit land.	
Very little output, if any, will be left over to sell	
and most will feed the farmer and his family.	
This is an agricultural system in which plots of	
land are cultivated temporarily, then	
abandoned.	
Output sold locally to supermarkets and/or	
exported to other countries.	
This type of farming is common in LEDCs and	
the farmers only use simple tools for manual	
labour.	
In this type of farming many use a practice of	
slash-and-burn as one element of their farming	
cycle.	
The main aim of carrying out this type of	
farming is earning maximum amount of profit	
from a given piece of land.	
This type of farming is common in MEDCs	
and the farmers make use of high tech	
equipment and computers.	
These farmers have very small plots of land.	
This system often involves clearing of a piece	
of land followed by several years of farming,	
until the soil loses fertility.	
Once the land becomes inadequate for crop	
production, it is left to be reclaimed by natural	
vegetation.	
The crops grown are for the consumption of the	
cultivators and the other members of the tribe.	
	12 marl

Environmental Concerns

Question 6

Soil is one of the most precious natural resources on earth. Explain **three** methods of **soil conservation** in order to avoid soil erosion. You can choose to write about any three from these five examples:

Student Bounts, com **Planting of trees Contour Ploughing Terraces Crop Rotation Controlled Grazing**



a.	 	
b.		
c.		

List these causes of flooding under the right column:

Student Bounts, com Low lying areas Thawing of snow **Bridges trapping debris Deforestation** Rapid surface runoff due to urbanization Impermeable types of rock

Physical causes of flooding	Human causes of flooding

ırks

h	Give	three	wave	hv	which	flooding	can be	reduced
υ.	Give	unree	ways	υy	WIIICII	Hooding	can be	reduced

|--|--|

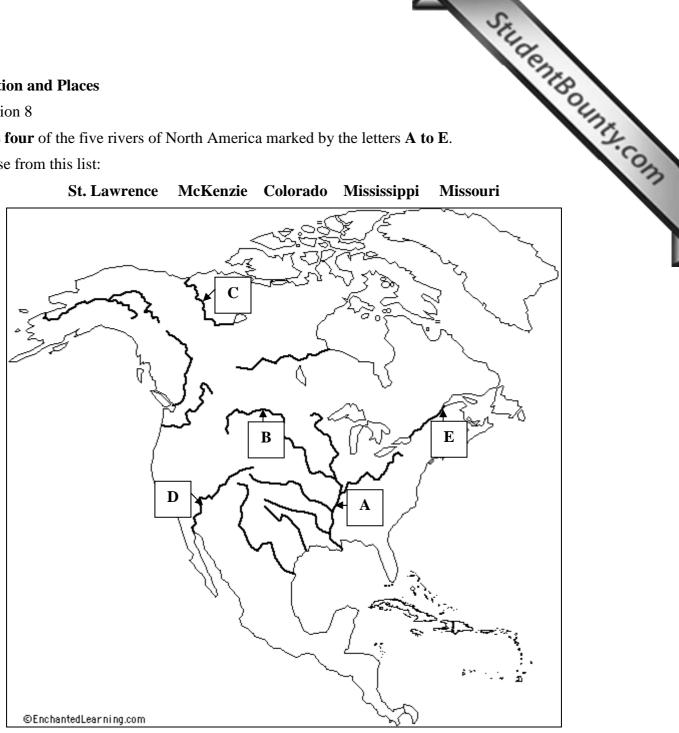
Location and Places

Question 8

Name **four** of the five rivers of North America marked by the letters **A** to **E**.

Choose from this list:

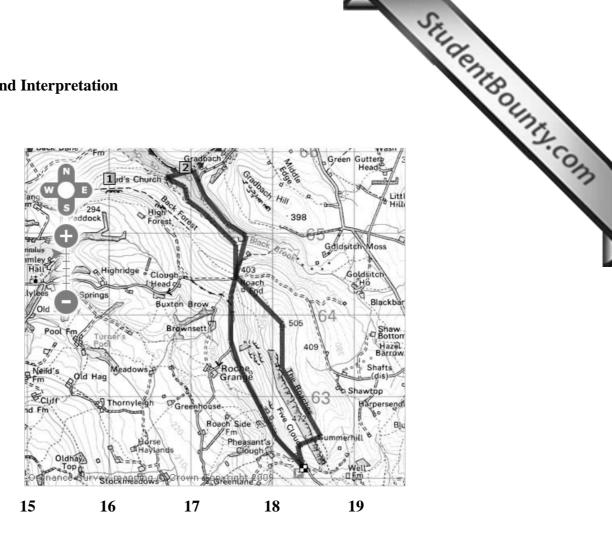
McKenzie Colorado Mississippi St. Lawrence Missouri



A.			
R			

Map Reading and Interpretation

Question 9



Examine carefully the given map extract and then work out the exercise.

hamlets developed along the secondary ______ network.

	Mark the numbers of the Northings on one side of the map.
b.	Name two primary activities practised in the given area.
c.	Give the six figure grid references of the points marked 1 and 2.
d.	If the scale of the map is 1:50000 (1cm represents $\frac{1}{2}$ km) what is the actual straight distance
	between Point 1 to Point 2?
	kms
e.	Fill in the missing details of this description about the settlement layout of the area covered by
	the map.
Wi	thin the area covered by the map extract there are several dispersed and
	. There are also a few as Gradbach and Brownsett. These

Underline the correct set of **Northings** of the given map (62; 63; 64; 65;66 or 15; 16;17; 18; 19).

The state of the s
f. Two grid boxes have been enlarged to double size from 1:50000 to 1:25000.
8.
Write the correct Eastings and Northings in their right position to correspond to grid boxes 18
1865 ; as in the given map extract.
Then draw the enlarged secondary road starting from 185660 to 190650 in these two grid boxes.
12 marks
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End of Paper