Weather and climate

Question 1

Fr

Ors occur where two different air masses meet. Explain how these three fronts are formed and what is happening at each of these three fronts.

Warm Fronts…………………………………………………………………………………………..
Cold Fronts

Occluded Fronts

Mark in their right position on the given picture the following three terms by writing the corresponding letter.

<table>
<thead>
<tr>
<th>A</th>
<th>Warm Sector</th>
<th>B</th>
<th>Isobars</th>
<th>C</th>
<th>Thunderstorm</th>
</tr>
</thead>
</table>

12 marks

Landforms and Processes

Question 2

Answer the following questions on ‘Plate Tectonics’.

a. Name the different types of plate boundaries:

i. ______________________________

ii. ______________________________

iii. ______________________________

iv. ______________________________

b. What happens at subduction zones?

____________________________________________________________________________

____________________________________________________________________________

c. Why do volcanoes develop close to subduction zones?

____________________________________________________________________________

____________________________________________________________________________

d. How do mid-ocean ridges form?

____________________________________________________________________________

____________________________________________________________________________

e. Is the Atlantic Ocean getting smaller or bigger? Explain why.

____________________________________________________________________________
f. Why are earthquakes and tremors common along the San Andreas Fault?

____________________________________________________________________________
____________________________________________________________________________
7 marks

g. Draw a labelled diagram to explain what is happening along one type of plate boundary.

2 marks

h. Imagine that as an MP (Member of Parliament) you form part of a committee to plan ways on how to minimise the effects of earthquakes. What would you suggest?

____________________________________________________________________________
____________________________________________________________________________
____________________________________________________________________________
____________________________________________________________________________

3 marks

Question 3

Explain the **four processes** by which a river **transports its load**.

<table>
<thead>
<tr>
<th>Saltation</th>
<th>Traction</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1.png" alt="Saltation Image" /></td>
<td><img src="image2.png" alt="Traction Image" /></td>
</tr>
<tr>
<td>Saltation</td>
<td>Traction</td>
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</table>

**Socio-Economic Human Systems**

**Question 4**

Explain in a short paragraph the main problems that have resulted from the rapid growth of Sao Paolo and the attempts being made to solve these problems.

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

8 marks
### Question 5

Fill in the details related to the three types of farming.

<table>
<thead>
<tr>
<th>Type of farming</th>
<th>Brief Explanation</th>
<th>Common in MEDCs or in LEDCs</th>
<th>Type of tools or equipment used</th>
<th>What happens to the output?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shifting Agriculture</td>
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</tbody>
</table>

| Intensive Commercial  | ................... | ...................           | .................                 | ...................           |
|                       | ................... | ...................           | .................                 | ...................           |
|                       | ................... | ...................           | .................                 | ...................           |
|                       | ................... | ...................           | .................                 | ...................           |
|                       | ................... | ...................           | .................                 | ...................           |
|                       | ................... | ...................           | .................                 | ...................           |
|                       | ................... | ...................           | .................                 | ...................           |
|                       | ................... | ...................           | .................                 | ...................           |

| Subsistence farming   | ................... | ...................           | .................                 | ...................           |
|                       | ................... | ...................           | .................                 | ...................           |
|                       | ................... | ...................           | .................                 | ...................           |
|                       | ................... | ...................           | .................                 | ...................           |
|                       | ................... | ...................           | .................                 | ...................           |
|                       | ................... | ...................           | .................                 | ...................           |
|                       | ................... | ...................           | .................                 | ...................           |
|                       | ................... | ...................           | .................                 | ...................           |

12 marks
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.

a. __________________________________________________________________________
   __________________________________________________________________________
   __________________________________________________________________________

b. __________________________________________________________________________
   __________________________________________________________________________
   __________________________________________________________________________

 c. __________________________________________________________________________
    __________________________________________________________________________
    __________________________________________________________________________

9 marks

Question 7

a. Fill in the table below to show the different physical and human causes of flooding:

<table>
<thead>
<tr>
<th>Physical causes of Flooding</th>
<th>Human causes of flooding</th>
</tr>
</thead>
<tbody>
<tr>
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<td></td>
<td></td>
</tr>
</tbody>
</table>
b. Give **three** ways by which flooding can be **reduced**.

……………………………….. ………………………………. ………………………………..  

9 marks

**Location and Places**

**Question 8**

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

A. ____________________________________

B. ____________________________________

C. ____________________________________

D. ____________________________________

E. ____________________________________  

8 marks
Map Reading and Interpretation

Question 9

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

a. 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 what is the actual straight distance between Point 1 and Point 2?

……………………………..cms    …………………………….kms


e. Describe the settlement layout of the area covered by the map.

……………………………………………………………………………………………………
……………………………………………………………………………………………………
……………………………………………………………………………………………………
……………………………………………………………………………………………………
f. Enlarge the grid boxes 1864; 1865; to double size from 1:50000 to 1:25000.

Draw the secondary road starting from 185660 to 190650 on this map enlargement.

12 marks
Page for rough work: