Section A
Answer all the questions in this section.

1. Look carefully at Figure 1.

![Figure 1](image_url)

Tick (✓) the correct answer.

a. This activity is called

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>i.</td>
<td>Crop rotation</td>
</tr>
<tr>
<td>ii.</td>
<td>Deforestation</td>
</tr>
<tr>
<td>iii.</td>
<td>Afforestation</td>
</tr>
<tr>
<td>iv.</td>
<td>Overgrazing</td>
</tr>
</tbody>
</table>

b. As a result of this practice

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
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</thead>
<tbody>
<tr>
<td>i.</td>
<td>trees protect the soil from the wind.</td>
</tr>
<tr>
<td>ii.</td>
<td>the leaves of the trees will reduce the effect of heavy rain.</td>
</tr>
<tr>
<td>iii.</td>
<td>no roots are left to bind the soil together.</td>
</tr>
<tr>
<td>iv.</td>
<td>many trees are planted.</td>
</tr>
</tbody>
</table>
c. This practice can

<p>| | |</p>
<table>
<thead>
<tr>
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<tbody>
<tr>
<td>i.</td>
<td>lead to a careful use of the soil.</td>
</tr>
<tr>
<td>ii.</td>
<td>lead to the production of more leaves.</td>
</tr>
<tr>
<td>iii.</td>
<td>keep the soil in place.</td>
</tr>
<tr>
<td>iv.</td>
<td>lead to a loss of soil.</td>
</tr>
</tbody>
</table>


d. An activity that reduces soil erosion is

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>i.</td>
<td>overgrazing.</td>
</tr>
<tr>
<td>ii.</td>
<td>deforestation.</td>
</tr>
<tr>
<td>iii.</td>
<td>afforestation.</td>
</tr>
<tr>
<td>iv.</td>
<td>up and down ploughing.</td>
</tr>
</tbody>
</table>

2a. Look carefully at Figure 2 and fill in the table with the physical features marked by the letters B to E.

![Figure 2](image)

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>arch</td>
</tr>
<tr>
<td>B</td>
<td></td>
</tr>
<tr>
<td>C</td>
<td></td>
</tr>
<tr>
<td>D</td>
<td></td>
</tr>
<tr>
<td>E</td>
<td></td>
</tr>
</tbody>
</table>

(4)
b. Give an example of an arch in the Maltese Islands.

_____________________________________(1)

3. Figure 3 shows how a waterfall is formed. Put the following words in the correct place in the diagram below.

<table>
<thead>
<tr>
<th>plunge pool</th>
<th>soft rock</th>
<th>hard rock</th>
</tr>
</thead>
<tbody>
<tr>
<td>undercutting</td>
<td>waterfall retreats back</td>
<td>river</td>
</tr>
</tbody>
</table>

![Figure 3](image)

Section B

Answer all the questions in this section (from 4 to 7). The answers must be short and precise.

4. Look carefully at Figures 4 and 5.

![Figure 4](image)

Figure 4

![Figure 5](image)

Figure 5

a. What type of farming is being practised in Figure 4?

_____________________________________(1)
b. What type of farming is being practised in Figure 5?

______________________________________________________________________ (1)

c. Mention two animals, besides those shown in Figure 5, reared by the Maltese farmer.

______________________________________________________________________

______________________________________________________________________ (2)

d. Mention four vegetables and fruit grown by the Maltese farmer.

______________________________________________________________________

______________________________________________________________________ (2)

5. Look carefully at Figures 6 and 7. Then answer the questions.

![Figure 6](image1.png)  ![Figure 7](image2.png)

a. Give two reasons to explain why the soil shown in Figure 6 is not easily eroded.

______________________________________________________________________

______________________________________________________________________ (2)

b. Explain why the soil in Figure 7 can be easily carried away and lost.

______________________________________________________________________

______________________________________________________________________ (2)

c. What caused the collapse of the rubble wall in Figure 7?

______________________________________________________________________ (2)

d. Why, do you think, the damaged rubble wall should be immediately repaired?

______________________________________________________________________ (2)
6. Look carefully at the two graphs below.

![Figure 8: Temperature (°C) vs Month]

![Figure 9: Rain (mm) vs Month]

Use Malta’s climate graphs to answer the following questions.

a. Give **two** reasons why there is a lack of fresh water in the Maltese Islands.

____________________________________________________________________________
____________________________________________________________________________(2)

b. Suggest **two** ways how, on a national level, the problem of lack of fresh water can be solved.

____________________________________________________________________________
____________________________________________________________________________(2)

c. Mention **four** ways how each and every one of us can use water with more care.

____________________________________________________________________________
____________________________________________________________________________
____________________________________________________________________________
____________________________________________________________________________(4)
7. Look carefully at the map of the world in Figure 10 showing major rivers. On this same figure, write the name of any **three** of the rivers shown.

![Figure 10](image)

Section C

Answer three questions from this section (from 8 to 11). The answers must be detailed and written on the paper provided. Each question carries 20 marks.

8. With the help of Figure 11, answer the following questions.

![Figure 11](image)

a. Explain **two** ways how the sea can erode the coast. (4)

b. Explain how bays and headlands are formed as in Figure 11. (8)

c. Draw a labelled diagram or diagrams to explain how bays and headlands are formed. (8)
9. Read the following passage and then answer the questions.

A new campaign launched by the European Commission for organic food and farming.

A few days ago the European Commission launched a new campaign called ‘Organic farming – good for nature, good for you’ in order to promote organic farming and also organic food.

The aim of this campaign is to increase the amount of information on organic food, especially among children and youths.

a. What is organic farming? (2)
b. Give two advantages of organic farming. (4)
c. Mention two problems that the farmer might meet when practising organic farming. (4)
d. Explain how a farmer practising organic farming can maintain a fertile soil. (4)
e. Explain how a farmer practising organic farming can keep insects and diseases away from his fields. (4)
f. Why would it be convenient to buy fruit and vegetables from an organic farmer? (2)

10. 

a. Explain why soil is an essential and natural resource. (2)
b. Explain how soil is formed. (3)
c. Name the three types of soil found in our islands. (3)
d. Name two natural causes of soil erosion. (2)
e. Mention two human activities that can cause soil erosion. (4)
f. Mention two soil conservation practices. (2)
g. Explain in detail how one of the activities mentioned in question (e) exhausts the soil and leads to its erosion. (4)

11. 

a. Give the meaning of the following words: porous rock, permeable rock and impermeable rock. (6)
b. Explain how the perched aquifer is formed. (4)
c. Draw a diagram showing the five layers of rocks of Malta. On the diagram, mark:
   i. the Upper Coralline Limestone.
   ii. the Blue Clay.
   iii. the Upper Water Table.
   iv. On the diagram itself draw and label a natural spring.
   v. On the diagram label the Lower Water Table. (6)
d. Explain how the Lower Water Table is formed. (4)