Name: _________________________________________ Class: ____________

Instructions to Candidates
Answer all questions in the space provided. Write your answers neatly and in good English. Credit will be given for relevant illustrations. The marks for individual questions are shown in round brackets: e.g. (4). There are 9 questions in all. The total mark for this paper is 90.

Examiner’s use only

<table>
<thead>
<tr>
<th>Question No.</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>Written Exam</th>
<th>Fieldwork Report</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. Mark</td>
<td>12</td>
<td>8</td>
<td>12</td>
<td>8</td>
<td>12</td>
<td>10</td>
<td>10</td>
<td>10</td>
<td>8</td>
<td>90</td>
<td>10</td>
<td>100</td>
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<tr>
<td>Score</td>
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</tr>
</tbody>
</table>

1. Study carefully Figure 1 on page 3, and then answer the following questions:

   a. In what grid square is:

   (i) Whale Chime
       _____________________________________________
   (ii) Brighstone
       _____________________________________________
   (iii) Little Atherfield
       _____________________________________________
   (iv) Rocken End
       _____________________________________________

   (2)

   b. What would you actually find at each of these map references?

   (i) 488771  ________________________________
   (ii) 483776  ________________________________
   (iii) 485787 ________________________________
   (iv) 457830  ________________________________

   (2)
c. On the map itself write the letters **A** and **B** where you would find the following landforms:

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>A</strong></td>
<td>Cliff</td>
</tr>
<tr>
<td><strong>B</strong></td>
<td>A very steep slope</td>
</tr>
</tbody>
</table>

(2)

d. The scale of the map is 1:50000 or 1cm represents ½ km (0.5km). Use this scale to calculate the straight line distance from Presford Fm (GR 467823) to Beckfield Cross (GR 484809).

_______________________________________________________________________

(2)

e. What evidence can you find from the map to show that many tourists visit the area?

_______________________________________________________________________

(1)

f. What is the compass direction from:

(i) Kingston (4781) to Corve Fm (4780)?

(ii) Pyle (4778) to Thorncross (4381)?

___________________

___________________

(1)

g. Would you be walking **uphill** or **downhill** if you walked from the monument (4978) to the milestone (MS) (4878)?

___________________

(1)

h. What evidence can you find from the map to show that farming is practised in the area?

_______________________________________________________________________

(1)
2. Study the Map of South America (Figure 2 on page 4) and then answer the following questions:

   a. Name the countries marked by the letters A, B and C.

<table>
<thead>
<tr>
<th></th>
<th>Countries</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td></td>
</tr>
<tr>
<td>B</td>
<td></td>
</tr>
<tr>
<td>C</td>
<td></td>
</tr>
</tbody>
</table>

(3)
b. Name the megacity marked by the letter D.

<table>
<thead>
<tr>
<th>Megacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>D</td>
</tr>
</tbody>
</table>

(1)

c. Name the oceans marked by the letters E and F.

<table>
<thead>
<tr>
<th>Oceans</th>
</tr>
</thead>
<tbody>
<tr>
<td>E</td>
</tr>
<tr>
<td>F</td>
</tr>
</tbody>
</table>

(2)

d. Name the sea marked by the letter G.

<table>
<thead>
<tr>
<th>Sea</th>
</tr>
</thead>
<tbody>
<tr>
<td>G</td>
</tr>
</tbody>
</table>

(1)

e. Draw an arrow on the map to indicate the direction of the Peruvian Current.

Figure 2 - Map of South America
3.  a.  Study carefully the synoptic chart (Figure 3) below and answer the following questions:

   i.  What are the lines covering the map called?  __________________

   ii. What do these lines show?  __________________

   b.  What is the cloud cover at **station D**?

       ____________________________  (1)

   c.  Give the difference in temperature between **station D** and **station E**.

       ____________________________  (1)

   d.  Is the wind speed stronger at **station D** or **station E**?

       ____________________________  (1)

---

**Figure 3 – Synoptic chart of Western Europe.**
e. What is the wind direction at station D?

_____________________________  (1)

f. Draw a station over Italy to show the following weather:

i) 0 oktas cloud cover  (1)

ii) west wind, Force 2 (5 knots)  (2)

iii) temperature 12°C  (1)

g. Name two countries with an atmospheric pressure reading of 1008 mb.

_________________________________________________________________________

4. Study carefully figure 4 below.

a. Add the following labels on Figure 4:

impermeable rock  swallow hole  surface stream

stalactite  stalagmite  cave/cavern

b. Explain why the surface stream disappears at A and reappears at B.

_________________________________________________________________________

_________________________________________________________________________

(2)
5. **a.** Explain the erosional processes of **abrasion** (corrasion) and **attrition** along the coast.

_________________________________________________________________________
_________________________________________________________________________
_________________________________________________________________________
_________________________________________________________________________
(4)

**b.** Mention **two** other ways by which waves can erode the coast.

___________________________ and ____________________________
(2)

**c.** In the space below, draw and label a diagram to show a **headland** with an **arch** and a **stack**.

(3)

**d.** Describe how a **stack** is formed.

_________________________________________________________________________
_________________________________________________________________________
_________________________________________________________________________
(2)

**e.** In time, further wave action will result in the stack collapsing to leave a ____________.

(1)
6. Study Figure 5 which shows a world map of large cities with a population of over 5 million.

![Figure 5](image)

**Figure 5**

**a.** Using Figure 5, how many cities with a population of over 5 million are found in the MEDCs?

________________________________________

(1)

**b.** Using Figure 5, which continent has the greatest number of cities with populations over 5 million?

________________________________________

(1)

**c.** Explain the distribution of the cities shown in Figure 5.

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

(2)
d. What is meant by urbanisation?

_________________________________________________________________________
_________________________________________________________________________

(2)

e. Explain what is rural to urban migration.

_________________________________________________________________________
_________________________________________________________________________

(2)

f. People migrate from one place to another to get away from things they do not like and because they are attracted to things that they do like. The following are push and pull factors. Put each factor in the correct column in the table below.

Better housing and better quality of life. Lack of services such as schools, hospitals, etc.
Poor wages and shortages of jobs. Attraction to ‘bright lights’ and entertainment.

<table>
<thead>
<tr>
<th>Push factors</th>
<th>Pull factors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Better housing and better quality of life.</td>
<td>Lack of services such as schools, hospitals, etc.</td>
</tr>
<tr>
<td>Poor wages and shortages of jobs.</td>
<td>Attraction to ‘bright lights’ and entertainment.</td>
</tr>
</tbody>
</table>

(2)

7. Study the figures shown below (Figures 6 and 7) and then answer the questions.

<table>
<thead>
<tr>
<th>Year</th>
<th>Tourists (millions)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1950</td>
<td>25</td>
</tr>
<tr>
<td>1960</td>
<td>69</td>
</tr>
<tr>
<td>1970</td>
<td>160</td>
</tr>
<tr>
<td>1980</td>
<td>285</td>
</tr>
<tr>
<td>1990</td>
<td>425</td>
</tr>
</tbody>
</table>

Figure 6 – World Tourist Arrivals (1950-1990)

Figure 7 – Top ten Tourist Destinations (2002)
a. Give **two** reasons why the tourist industry has increased since 1950.

_________________________________________________________________________
_________________________________________________________________________
_________________________________________________________________________

(2)

b. Write down the name of the European countries that are in the top ten tourist destinations.

_________________________________________________________________________
_________________________________________________________________________
_________________________________________________________________________

(3)

c. Using Figure 6, World Tourist Arrivals (1950-1990), draw a simple graph to show the growth of international tourism in the grid below.

8. In 1986 the largest oilfield in N. America was discovered at Prudhoe Bay in Alaska. A pipeline was built from Prudhoe Bay southwards to the ice-free port of Valdez.

![Alaska’s oil pipeline](image)
a. Give four physical problems faced by pipeline builders in Alaska.

_________________________________________________________________________

_________________________________________________________________________

_________________________________________________________________________

_________________________________________________________________________

(4)

b. Give two reasons why people in Alaska may be in favour of the oil industry.

_________________________________________________________________________

_________________________________________________________________________

_________________________________________________________________________

(1)

c. Give two reasons why some people are against the extraction of oil in Alaska.

_________________________________________________________________________

_________________________________________________________________________

_________________________________________________________________________

(1)

d. Valdez is the ice-free port at the end of the Alaska pipeline. To reach the open sea, oil tankers have to follow a dangerous route which takes them through Prince William Sound. Give two dangers faced by oil tankers in Prince William Sound.

_________________________________________________________________________

_________________________________________________________________________

_________________________________________________________________________

(2)

e. In March 1989 the supertanker Exxon Valdez ran aground. Give two effects of the Exxon Valdez oil spill.

_________________________________________________________________________

_________________________________________________________________________

_________________________________________________________________________

(2)
9. Read the following passage and then answer the questions below.

France has developed an ambitious nuclear programme as it had to rely upon expensive oil imports from the politically unstable Middle East and North Africa. In 1980, 37% of electrical energy was obtained from nuclear power. This increased to more than 50% in 1986. In 1996 France continued its nuclear testing on Mururoa Atoll in the Southern Pacific in spite of protests from people, organisations and countries all over the world.

a. Which raw material is required for nuclear power?
   ____________________________________________________________ (1)

b. Is nuclear energy a renewable or non-renewable source of power?
   ____________________________________________________________ (1)

c. Briefly explain three advantages of nuclear energy.
   ____________________________________________________________
   ____________________________________________________________
   ____________________________________________________________
   ____________________________________________________________
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   ____________________________________________________________
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   ____________________________________________________________
   ____________________________________________________________
   ____________________________________________________________
   ____________________________________________________________
   (3)

d. List three disadvantages of nuclear energy.
   ____________________________________________________________
   ____________________________________________________________
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   ____________________________________________________________
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   ____________________________________________________________
   (3)