Use black ink or black ball-point pen.

Write your name, centre number and candidate number in the spaces at the top of this page.

Answer one question from Section A, one from Section B and one other.

Answer no more than three questions.

Write your answers in the spaces provided in this booklet. Where the space is not sufficient for your answer, continue the answer at the back of the book, taking care to number the continuation correctly.

The number of marks is given in brackets at the end of each question or part-question.

You are reminded that assessment will take into account the quality of written communication used in your answers that involve extended writing.

In addition, your ability to spell, punctuate and use grammar accurately will be assessed in your answer to the last sub-question of each theme.
SECTION A - PHYSICAL OPTIONS

Answer at least one question from this section, but no more than two.

Theme 7 – Our Changing Coastline

1. (a) Study the OS map of part of the Dorset coastline in southern England.

A full key appears on page 32.

(i) Describe the relief in grid square 0381. [2]
(ii) Using evidence from the OS map, and your own knowledge, annotate the sketch below to explain why headlands and bays form along this coastline.
(b) Study the information below that shows recent changes in global sea level.

Explain the changes in global sea level shown by the graph. [6]
(c) Describe how soft engineering can be used to manage the coastline. Explain the advantages and disadvantages of soft engineering in an area (or areas) of coastline you have studied. [8 + 4]

Marks for spelling, punctuation and the accurate use of grammar are allocated to this question.
2. (a) Study the map below. It shows the maximum temperatures experienced in the UK in July 2006.

(i) Describe the pattern shown on the map. [2]
(ii) Using information from the map and your own knowledge, annotate the map below to explain the pattern of July temperatures.
(b) Explain why low pressure systems (depressions) bring variations in the weather as they move across the UK.

You must add information to the diagram to support your answer.
(c) Describe how weather hazards can affect the environment and economy of a country (or countries) you have studied.

Marks for spelling, punctuation and the accurate use of grammar are allocated to this question.

End of Theme 8 question
3. (a) Study the graph which shows the relationship between population growth and the number of species that have become extinct between 1800 and 2010.

(i) Describe the relationship shown in the graph.  

[2]
(ii) Study the photograph below which shows an area that has been mined in a tropical rainforest. Annotate the photograph to describe how people can have a negative impact on the environment within this ecosystem.
(b) Explain why a named ecosystem needs to be managed more sustainably in the future. [6]
(c) Explain why the global distribution of large scale ecosystems (biomes) is influenced by climate.

You must refer to more than one large scale ecosystem (biome) in your answer. [8 + 4]

Marks for spelling, punctuation and the accurate use of grammar are allocated to this question.
4.  

(a) Study the graph below which shows the number of cruise ship passengers carried worldwide between 1990 and 2015.

The number of cruise ship passengers worldwide

(i) Describe the trend shown on the graph. [2]
(ii) Study the photographs below which show cruise ships at ports in a Caribbean island. Annotate the photographs to suggest some impacts of cruise holidays in this region. [4]
(b) Describe how tourism has changed in recent years. Use one or more named locations to support your answer. [6]
(c) What are the impacts of the development of tourism on people in two regions at different levels of economic development?

Use named regions to support your answer. Label the regions correctly on the map.

Marks for spelling, punctuation and the accurate use of grammar are allocated to this question.
End of Theme 10 question
5. (a) Study the graphs below. They show where retailing occurs in a city and the changes that have taken place.

Percentage of shopping in different parts of the city

- **2000**
  - City centre: 49.4%
  - Internet: 28.1%
  - Local shops: 17.4%
  - Retail park: 5.1%

- **2014**
  - City centre: 39.8%
  - Internet: 32.3%
  - Local shops: 15.7%
  - Retail park: 12.2%

(i) Describe the main changes shown by the graphs. [2]
(ii) Amazon is a large internet retailer. Look at the map which shows the location of the Amazon Distribution Centre on the outskirts of Milton Keynes in England.

A full key appears on page 32.

Annotate the map to suggest why this site was chosen by Amazon for a Distribution Centre.
(b) Study the map and photograph below. They show part of Liverpool city centre which has been regenerated in recent years.

Liverpool City Centre

Liverpool One Shopping Centre

KEY
- Rail Station
- World Heritage Site
- Parking
- Hotel
Use this information and your own knowledge of a European city to describe how regenerating a city centre can bring advantages to people. [6]
 Describe how increasing consumer choice in Europe can have impacts on people in developing countries.

Marks for spelling, punctuation and the accurate use of grammar are allocated to this question.

End of Theme 11 question
6. (a) Study the graph below.

(i) Describe the changes shown by the graph. [2]
(ii) The OS map shows the location of the Royal Welsh Showground in Llanelwedd.

A full key appears on page 32.

Annotate the map to identify two advantages of this location as the permanent site for the Show. [4]
(b) Read the information below about investment in renewable energy in Wales.

Royal Welsh Show: Welsh investing millions in renewables

Monday 23 July 2012

Farmers in Wales are investing millions of pounds in income-generating renewable energy schemes.

It is predicted that renewable energy will play an increasingly crucial role in the future of Welsh farming as a secondary income.

Describe the physical factors that are encouraging people in Wales to invest in renewable energy schemes. [6]
(c) Describe ways in which farming has changed in Wales.
Explain the social impact of such changes. [8 + 4]

Marks for spelling, punctuation and the accurate use of grammar are allocated to this question.

End of Theme 12 question
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