

Roding Valley High School – Geography

Exam technique:

Describe – Say what you (would) see. Use describing words.

Explain – Make a point and develop with connectives e.g. therefore

Suggest – Think of a logical point from your own understanding

Paper 1

Hazardous Earth

Explain how ocean currents can influence climates. [4 marks]

Suggest two ways that global circulation patterns affect rainfall distribution. [4 marks]

Explain how global circulation influences the location of the world's deserts. [4 marks]

Explain how one type of evidence can help reconstruct past climates. [3 marks]

Explain two reasons why the predictions of future global temperatures are uncertain. [4 marks]

Explain the distribution of tropical cyclones. [4 marks]

Explain one hazard brought by tropical cyclones. [2 marks]

Explain two causes of tropical cyclones. [4 marks]

Explain one reason why people in Bangladesh are especially vulnerable to flooding. [2 marks]

Explain one difference between oceanic and continental crust. [3 marks]

Other than the mantle, explain the properties of two of Earth's internal layers. [4 marks]

Explain the location of divergent boundaries. [4 marks]

Suggest two reasons why some plate boundaries are more hazardous than others. [4 marks]

Explain two ways in which volcanic eruptions can be predicted. [4 marks]

Explain why earthquakes happen on collision plate margins. [4 marks]

Explain why tropical cyclones lose their power over land. (2)

Explain one reason why low lying coast lines are vulnerable to tropical cyclones (2)
Explain one way people can predict volcanic eruptions or earthquakes (3)
Explain how tropical cyclones form (3)
Explain one reason why some tropical storms intensify into cyclones (2)
Compare the physical property of the core and the mantle. (3)
Explain how convection currents contribute to plate movements (3)
Explain two ways some earthquakes cause more damage and loss of lives than others (2)
Explain two secondary impacts often caused by volcanic eruptions (2)
Referring to named examples, state two ways people can protect themselves against earthquakes and volcanic eruptions (3)
For a named earthquake or volcanic eruption, explain the short term relief efforts (3)
Explain one short term relief measure that can help people during a volcanic eruption (2)
Explain how one type of evidence can help reconstruct past climates (3)
Explain one hazard brought by tropical cyclones (2)
Explain one reason why people in Bangladesh are especially vulnerable to flooding. (2)
Explain one difference between oceanic and continental crust (3)
Explain one role of ocean currents (2)
Explain one cause for the movement of tectonic plates. (3)

Development Dynamics

Describe two indicators that show a country's level of development. [4 marks]

Explain the population structure of one developing country. [4 marks]

Explain why HDI level varies between countries in Africa. [4 marks]

Explain one physical factor that can prevent development progress in a country. [3 marks]

Explain how Rostow's model can be used to explain the development of a country. [4 marks]

Suggest two reasons for the projected changes in GDP in India by 2050. [4 marks]

Explain why the size of global trade flows varies between India and other countries. [4 marks]

Explain one reason why levels of development vary within a country. [4 marks]

Explain what is meant by intermediate technology. [4 marks]

Explain the benefits of bottom-up development projects. [4 marks]

Explain one way in which the human development index (HDI) measures development (2)
Explain one reason why economic growth leads to higher levels of all types of pollution in emerging countries (3)
Explain one advantage of top down development strategies (2)
Explain one way in which outsourcing affects economic development in an emerging country (3)
Describe how Rostow's theory can be used to help understand economic growth over time. (3)
Describe how Frank's dependency theory can be used to help explain how countries develop. (2)

Explain some of the problems with development theories (3)
Suggest why Frank's dependency's theory may not apply to some countries today. (3)
State two characteristics of top down development. (2)
Explain one advantage of intermediate technology. (3)
Many TNC's have located their operations in emerging countries. Suggest how people in emerging countries can benefit from TNC's. (3)
Describe the location of the emerging country that you studied in your case study. (3)
Explain one feature of the political context of the emerging country you have studied. (3)
Describe how the natural environment and culture of your emerging country has influenced its economic development. (3)
Explain the impact of globalisation on the environment of emerging countries. (3)
Referring to a named developing or emerging country, describe how levels of development vary within a country. (2)
For a named emerging country, explain how global trade has contributed to the economic development of the country. (3)
Explain one way international organisations have affected the development of the economy of an emerging country you have studied. (3)
Explain one physical factor that can prevent development progress in a country. (3)

Challenges of an Urbanising World

Explain two reasons why the world is increasingly urbanised. [4 marks]

Explain two ways in which world cities influence decision-making. [4 marks]

Suggest one reason for why a population may decrease. [2 marks]

Explain two reasons why the economies of developed and developing world cities differ. [4 marks]

For a named megacity in a developing or emerging country, explain two ways in which its land use changes across the city. [4 marks]

For a named megacity in a developing or emerging country, explain two reasons for its rapid spatial growth. [4 marks]

Explain the impact on people of two urban environmental problems in developing or emerging megacities. [4 marks]

For the megacity named, explain the building age in the urban rural fringe. (2)
For a named megacity in a developing or emerging country, state one way that site and one way that situation are significant in a national context. (2)
Explain one challenge of rapid population growth for people in mega cities (2)
For a named megacity in a developing or emerging country, give two reasons why residential areas have a contrasting quality of life. (2)
Explain one way in which bottom up projects can improve city housing. (2)
Explain one problem associated with a developing world megacity. (2)

Explain one reason why some cities in the developed world have experienced a decline in population. (2)
Explain one problem for people working in the informal economy. (3)
Compare the economic activities in developed countries with those in developing or emerging countries. (3)
You have studied a megacity in an emerging or developing country as a case study, describe your megacity's location. (3)
Explain one reason why the location of the megacity you have studied has been important for its growth (2)
Referring to a megacity you have studied, describe the land use in and around the CBD (2)
Referring to a megacity you have studied, explain how it has changed as a result of recent growth.(3)
Referring to a megacity you have studied, explain one social problem facing people living there. (3)
Explain one reason why large numbers of people in megacities in developing and emerging countries work in the informal sectors. (3)
Explain one reason for the differences in living conditions in megacities (2)
For a named megacity in a developing or emerging country, compare the residential areas of different groups of people. (3)
Explain one reason why there are inequalities in how people are housed in megacities. (3)
Explain one advantage of a top down strategy used to make a megacity more sustainable. (2)
Explain one disadvantage of a bottom up strategy used to make a megacity more sustainable. (2)
Referring to a named example, explain how living conditions in squatter settlements can be improved. (3)

Paper 2

UK's Evolving Physical Landscape

Explain one way past tectonic processes influenced the physical landscape of the UK. [2 marks]

Explain one way rock type influences the relief of the land in the UK. [2 marks]

Explain two weathering processes that affect the UK's landscapes. [4 marks]

Explain one way in which human activity has influenced the UK's physical landscape. [2 marks]

Explain the differences between concordant and discordant coastlines. [4 marks]

Explain how beach formation is influenced by different types of waves. [4 marks]

Explain the formation of a spit. You may use diagrams in your answer. [4 marks]

Explain how human activities affect coastal landscapes. [4 marks]

Explain why some coastlines experience rapid erosion. [4 marks]

Explain why coastal management decisions can lead to conflict. [4 marks]

Explain the processes that lead to the formation of a waterfall. [4 marks]

Explain how weathering and mass movement can affect the shape of river valleys. [4 marks]

Explain the processes that lead to the formation of an ox-bow lake. Use diagram(s) to help with your answer. [4 marks]

Explain how channel characteristics change along a river's long profile. [4 marks]

Explain two reasons why flood risks in the UK are rising. [4 marks]

Explain one way glaciation has affected the physical landscape of the UK (2)
Explain why groynes can reduce coastal erosion (2)
Explain one reason why the antecedent conditions in a drainage basin can affect the peak discharge of a river's hydrograph (2)
Explain one way weathering affects slopes (2)
Explain two possible reasons why erosion is rapid on a coastline. (2)
Describe how river discharge is calculated. (2)
Explain one way glacial processes have contributed to the formation of the UK's physical landscape (2)
Explain one way past tectonic processes have caused the development of the Grampian mountains in Scotland (2)
State the main characteristic of sedimentary rock (2)
Slate is an example of metamorphic rock. Explain how metamorphic rocks form. (2)
State two differences between discordant and metamorphic coasts (2)
Describe two characteristics of soft rock cliffs (2)
Explain two differences between the destructive and constructive waves (2)
Describe one way in which wave action can erode coastal cliffs (3)
State two factors that influence the size and the type of the wave(3)
Define the term "sub-aerial processes" (2)
Explain one reason why coasts retreat at different rates (3)
For a named example, explain one process that has changed the coastal landscape (3)
For a named example, explain how coastal management processes have changed the coastal landscape. (3)
Explain how groynes can help reduce rates of coastal erosion (2)
Describe one disadvantage of beach nourishment (2)
Explain one advantage of using hard defences at the coast. (2)
Explain one way the Integrated Coastal Zone Management (ICZM) techniques can be used to protect the coastline (2)
Define the term "Long Profile" (2)
Explain the process of abrasion (2)
Explain how a meander is formed (3)
Describe the relationship between river depth and velocity on a meander (2)
Describe the process that forms levees (2)
Explain how deltas form (3)
Explain one way climate affects river landscapes and sediment load (3)
Explain one reason river flooding is likely to become more frequent in some parts of the UK (2)
Explain how flood defences work (2)
Explain why planting trees in a river catchment helps reduce flooding (3)
Explain one way past tectonic processes influenced the physical landscape of the UK (2)

Explain one way rock type influences the relief of the land in the UK (2).
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Explain one way in which human activity has influenced the UK's physical landscape (2).

UK's Evolving Human Landscape

State two reasons why population density varies across the UK on Figure 2. [4 marks]

Explain how government policies have attempted to reduce the differences between core and peripheral regions of the UK. [4 marks]

Explain the increase in UK's population between 1950 and 2010.[4 marks]

Explain the downward trends in primary and secondary employment in the UK since 1980. [4 marks]

State two characteristics of quaternary sector employment. [2 marks]

Explain the impacts of globalisation on the UK economy. [4 marks]

Explain why some cities are better connected than others. [4 marks]

State two characteristics of the inner city. [2 marks]

Explain why many UK cities are experiencing more growth at their edges than in their centres. [4 marks]

Explain how cities and accessible rural areas can depend on each other. [4 marks]

Explain the pressures that accessible rural areas experience from economic and social change. [4 marks]

Explain how economic change has affected one rural area you have studied. [4 marks]

Explain two reasons why projects are needed to diversify the economy of rural areas. [4 marks]

State two reasons why tertiary employment has increased in the UK. (2)
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Explain one reason why some regions of the UK have experienced almost no population growth in the past 50 years (2)

Explain one reason why major cities attract large numbers of international migrants (2)

State two characteristics of a Central Business District (CBD) (2)
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State two reasons why foreign direct investment (FDI) has increased in the UK (2)

Explain one reason why secondary employment has declined in the UK (2)
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Explain one reason why child poverty varies in urban areas. (2)

Suggest two reasons why younger people move to urban areas (2)
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Explain one way the government policy can reduce the regional differences within the UK. (2)
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Describe how international migration may affect ethnic and cultural diversity in the UK (2)

Suggest reasons for the decline in the number of coal miners in the UK (3)
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Describe the benefits of FDI for the UK (2)

Explain why FDI has increased in the UK in recent years (3)
With reference to a named city in the UK, explain one way its location has been important to its growth and development. (3)
With reference to a named UK city, explain one impact of heavy industry on the environment. (3)
For a named UK city, explain one cause of migration into the city (2)
With reference to a named UK city you have studied, explain why economic decline has occurred. (3)
State two ways cities depend on nearby rural areas (2)
Explain one environmental cost of the inter-relationship between cities and rural areas. (2)
Explain one reason why farmers in the UK have diversified their activities (2)
State two characteristics of the quaternary sector employment (2)
State two characteristics of the inner suburbs (2)

Fieldwork Investigations

For the coastal location in which you carried out fieldwork, explain two reasons why particular aims or questions were chosen. [4 marks]

For your chosen coastal location, explain two ways that you collected quantitative fieldwork data. [4 marks]

Explain one way in which you attempted to make your data collection reliable. [2 marks]

Explain one advantage of using a line graph to show a beach gradient cross section. [2 marks]

Explain one technique that you used to present your beach sediment data. [2 marks]

Explain two ways in which you analysed your beach sediment data. [4 marks]

Explain one factor about your own primary data which could have affected your results. [2 marks]

For your chosen urban area, explain two reasons why particular aims or questions were developed. [4 marks]

For your chosen urban area, explain two ways that you collected quantitative fieldwork data. [4 marks]

Explain one way in which you attempted to make your data collection reliable. [2 marks]

Explain two ways in which you analysed your urban fieldwork data. [4 marks]

Explain one factor about your own primary data which could have affected your results. [2 marks]

Describe one piece of primary data that could be collected that could help with your enquiry question (2)
Describe how the cross sectional area of the river is calculated (2)
Explain one way you used GIS in your own river processes and pressure investigation (2)

Explain how you selected the sites you used in your urban environment investigation (2)
Explain one weakness of the technique you used to investigate environmental quality. (2)
Explain one reason why the method you used to measure the velocity of the river was appropriate to the task (2)
Explain one possible source of error when you measured the depth of the river channel (2).
You have used the Environment Agency flood-risk map in your investigation. Explain one way the Environment Agency flood-risk map supported your investigation. (2)
Explain one disadvantage of using the 2010 Index of Multiple Deprivation as a source of secondary data to investigate urban quality of life (2)
Explain one weakness of using a choropleth map to show urban deprivation (2)
Explain one weakness in the method you used to collect qualitative data (2)
Explain one way you attempted to make your data collection reliable. (2)
Explain one advantage of using a line graph to show the long profile of a river (2 mark)
Explain one technique that you used to present your river sediment data (2).
Explain one factor about your primary data which could have affected your results (2).
Explain one advantage of using a line graph to show the changes in environmental quality along a transect line in an urban area (2).
Explain one technique that you used to present your IMD data (2)

Paper 3

People and the Biosphere

Explain how latitude affects temperature and precipitation. [4 marks]

Explain how altitude affects ecosystems. [4 marks]

Explain how rainfall and temperature influence the location of temperate deciduous biomes. [4 marks]

Explain the importance of the biosphere to the water cycle. [4 marks]

Explain the theories of Malthus and Boserup about the relationship between population and resources. [4 marks]

Forests under Threat

Explain two ways that plants are adapted to conditions in the tropical rainforest. [4 marks]

Explain why tropical rainforests have complex food webs. [4 marks]

Explain why plant productivity is low in the taiga. [4 marks]

Explain two ways in which tropical rainforests are threatened by global warming. [4 marks]

Explain how pests and diseases threaten biodiversity in the taiga. [4 marks]

Explain one way in which tropical rainforests can be successfully conserved. [4 marks]

Explain how sustainable forest management can help conserve the biosphere. [4 marks]

Explain two ways in which the taiga can be conserved. [4 marks]

Consuming Energy Resources

Explain why different energy resources are used in different locations. [4 marks]

Explain the potential for development of two renewable energy sources in the UK. [4 marks]

Explain why energy use varies throughout the world. [4 marks]

Explain why oil reserves and production are unevenly distributed. [4 marks]

Explain why oil reserves and production are unevenly distributed. [4 marks]

Explain one cost and one benefit of searching for energy resources in ecologically sensitive areas. [4 marks]

Explain how energy efficiency and conservation measures can reduce energy consumption. [4 marks]

Explain how renewable energies could alter the world's dependency on fossil fuels. [4 marks]

Explain one way that ecological footprints can be reduced. [2 marks]