

Province of the

**EASTERN CAPE**

EDUCATION

**NATIONAL**

**SENIOR CERTIFICATE**

**GRADE 11**

**NOVEMBER 2010**

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| **GEOGRAPHY – PAPER 1** |

**MARKS: 300**

**TIME: 3 hours**

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| This question paper consists of 13 pages. |

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| **INSTRUCTIONS AND INFORMATION** |  |

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| 1. | This question paper consists of TWO sections, namely SECTION A and SECTION B. |  |
|  |  |  |
| 2. | Answer THREE questions. |  |
|  |  |  |
| 3. | All diagrams are included in the annexure. |  |
|  |  |  |
| 4. | Leave a line between subsections answered. |  |
|  |  |  |
| 5. | Start EACH question on a NEW page. |  |
|  |  |  |
| 6. | Number the answers correctly according to the numbering system used in this question paper. |  |
|  |  |  |
| 7. | Do NOT write in the margins of the ANSWER BOOK. |  |
|  |  |  |
| 8. | Where possible, illustrate your answer with labelled diagrams. |  |
|  |  |  |
| 9. | Write neatly and legible. |  |
|  |  |  |
| 10. | Mark allocation: If marks are given as follows – 3 x 2 = 6, it means that THREE facts should be given for TWO marks each.  If marks are given as follows – 3 x 1 =3, it means that THREE facts should be given for ONE mark each. |  |

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| **SECTION A: PHYSICAL GEOGRAPHY** |  |

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| **QUESTION 1: [12.1.2 – 12.1.5][12.2.1 – 12.2.4][12.3.1 – 12.3.2]** |  |

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| --- | --- | --- | --- | --- | --- |
| 1.1 | Study FIGURE 1, which illustrate the water masses of Africa and answer the following questions. Write only the correct answer next to the question number. e.g. 1.1.6 Indian Ocean. | | | |  |
|  |  | | | |  |
|  | Name the following from the map: | | | |  |
|  |  |  | | |  |
|  | 1.1.1 | The inland drainage basin number 1. | | |  |
|  |  |  | | |  |
|  | 1.1.2 | The dam numbered 2. | | |  |
|  |  |  | | |  |
|  | 1.1.3 | The lake numbered 3. | | |  |
|  |  |  | | |  |
|  | 1.1.4 | Name TWO rivers that flow into the Indian Ocean? (5 x 2) | | | (10) |
|  |  |  | | |  |
| 1.2 | Match the CONCEPT in COLUMN B with the description in COLUMN A. Write only the appropriate letter (of your choice) of the concept in COLUMN B next to the question in COLUMN A, e.g. 1.2.6 P. | | | |  |
|  |  | | | |  |
|  | **COLUMN A** | | **COLUMN B** | |  |
| 1.2.1 | The process whereby water that moves through the soil, removes dissolved nutrients | A | Biomass |
|  |  |  |  |
| 1.2.2 | When too many animals a area removes the nutrients in and prevents or causes that the vegetation cannot grow any more. | B | Selfregulation |
|  |  |  |  |
| 1.2.3 | The total mass of all living organisms in a ecosystem | C | Throughflow |
|  |  |  |  |
| 1.2.4 | The movement of fine particles from the upper layers of the soil | D | Biome |
|  |  |  |  |
| 1.2.5 | The process whereby the population of an ecosystem are able to regulate their numbers according to the availability of food. | E | Elluviation |
|  |  |  |  |
|  |  | F | Leaching |
|  |  |  |  |
|  |  | G | Illuviation |
|  |  |  |  |  |  |
|  |  |  | H | Overgrazing |  |
|  |  | (5 x 2) | | | (10) |

|  |  |  |  |
| --- | --- | --- | --- |
| 1.3 | The following questions must be answered by referring to both FIGURE 1.1A and FIGURE 1.1B. | |  |
|  |  |  |  |
|  | 1.3.1 | Identify the sea into which the Nile river flows? (1 x 2) | (2) |
|  |  |  |  |
|  | 1.3.2 | Explain why the drainage basins of Central Africa are much bigger that the basins of North Africa? (1 x 2) | (2) |
|  |  |  |  |
|  | 1.3.3 | Name the country where the Nile delta can be found? (1 x 2) | (2) |
|  |  |  |  |
|  | 1.3.4 | Explain shortly what a delta is, and name TWO factors that encourages the development of deltas. (3 x 2) | (6) |
|  |  |  |  |
|  | 1.3.5 | Deltas are extremely advantagous in the areas where they occur. Name TWO advantages of deltas. (2 x 2) | (4) |
|  |  |  |  |
|  | 1.3.6 | Explain the influence of the dam numbered 4 on the sustainability of the Nile delta? (2 x 2) | (4) |
|  |  |  |  |
| 1.4 | Study FIGURE 1.4, which illustrate the development of a wave cut platform and sea cliff and answer the following questions. | |  |
|  |  | | |
|  | 1.4.1 | Name the type of beach which can be found at A. (1 x 2) | (2) |
|  |  |  |  |
|  | 1.4.2 | Why would you agree that the type of waves reaching the  shore at A, are destructive? (1 x 2) | (2) |
|  |  |  |  |
|  | 1.4.3 | Briefly explain how hydraulic pressure eroded the notch? (2 x 2) | (4) |
|  |  |  |  |
|  | 1.4.4 | The wavecut platform at B later slows the process of cliff formation. Substantiate this statement. (2 x 2) | (4) |
|  |  |  |  |
|  | 1.4.5 | Briefly explain why it would be dangerous for tourist to walk on the wave-cut platform? (2 x 2) | (4) |
|  |  |  |  |
| 1.5 | Study the diagram (FIGURE 1.5), which shows a water ecosystem and answer the following questions. | |  |
|  |  | |  |
|  | 1.5.1 | Give an example of each of the following components in the diagram and declare your choice in each case:   1. Producers 2. Primary consumers 3. Secondary consumers (3 x 2) | (6) |
|  |  |  |  |
|  | 1.5.2 | Name and discuss ONE way in which nutrients flow through the given water ecosystem. (2 x 2) | (4) |
|  |  |  |  |
|  | 1.5.3 | Refer to the diagram and explain how carbon and oxygen  are being recycled in the water ecosystem. (4 x 2) | (8) |

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| 1.6 | Study FIGURE 1.6, as well as the extract which deals with the influence of humans on the Savannah biome in parts of Africa, and answer the questions which follow. | |  |
|  |  | |  |
|  | “All the natural vegetation regions in Africa are under threat owing to the activities of people. Pressure from greater and greater numbers of people is slowly changing the Savannah landscape. The cutting down of trees and the destruction of the natural vegetation leads to the deterioration of the environment which eventually leads to desertification in drier regions like the Savannah areas.  [Adapted*: McMillan Gr 11 – Geography for All*] | |  |
|  |  |  |  |
|  | 1.6.1 | Distinguish between deforestation and desertification. (2 x 2) | (4) |
|  |  |  |  |
|  | 1.6.2 | Refer to the diagram and discuss ONE human factor which has lead to the desertification of the Savannah landscape. (3 x 2) | (6) |
|  |  |  |  |
|  | 1.6.3 | Refer to both the diagram and the extract and declare why desertification is such a big threat to the dry and semi-dry regions of Africa. (2 x 2) | (4) |
|  |  |  |  |
|  | 1.6.4 | Write an essay of ± 12 lines on how to preserve the Savannah Biomes and the best possible ways to manage it. In your discussion refer to strategies to preserve its plant and animal life as well as strategies to improve the quality of life of the local communities in the Savannah areas. (6 x 2) | (12) |
|  |  |  | **[100]** |
|  |  |  |  |
| **QUESTION 2: [12.1.2 – 12.1.5][12.2.1 – 12.2.4][12.3.1 – 12.3.2]** | | |  |
|  |  |  |  |
| 2.1 | Refer to the sketch showing the different types of coast (FIGURE 2.1) and answer the following questions, by choosing the correct answer from those between brackets. | |  |
|  |  | | |
|  | 2.1.1 | The coasts in all three sketches has developed as a result of  (rising / descending) of the coastline. |  |
|  |  |  |  |
|  | 2.1.2 | The coast at C is caused by (river valleys / glacier valleys). |  |
|  |  |  |  |
|  | 2.1.3 | Which coastal area (A or B) orginated as a result of folded mountains which have drowned? |  |
|  |  |  |  |
|  | 2.1.4 | Identify the coast (A or C) which is not suitable for the development of a harbour. |  |
|  |  |  |  |
|  | 2.1.5 | Name the coast most suitable for tourist activities. (5 x 2) | (10) |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 2.2 | Study FIGURE 2.2, which illustrates a carbon cycle and answer the following questions. Choose the correct answer from those in brackets. | | |  |
|  |  | |  |  |
|  | 2.2.1 | | The arrows stretching from X to Y, refer to a (food chain / food web). |  |
|  |  | |  |  |
|  | 2.2.2 | | The species marked A is called a (omnivore / carnivore). |  |
|  |  | |  |  |
|  | 2.2.3 | | The species at B is a (primary / secondary) consumer. |  |
|  |  | |  |  |
|  | 2.2.4 | | The ocean forms part of the (hydrosphere / lithosphere) in the biosphere. |  |
|  |  | |  |  |
|  | 2.2.5 | | The process where plant transfer carbon dioxide into oxygen is called (transpiration / photosynthesis). (5 x 2) | (10) |
|  |  | |  |  |
| 2.3 | Study the cartoon FIGURE 2.3 and answer the following questions. | | |  |
|  |  | | |  |
|  | 2.3.1 | Name TWO sources (except oil spills) which are the causes of marine pollution. (2 x 2) | | (4) |
|  |  |  | |  |
|  | 2.3.2 | The boat on the ocean causes pollution through oil spills.  Discuss the impact oil spills have on the sustainability of  marine life. (2 x 2) | | (4) |
|  |  |  | |  |
|  | 2.3.3 | Comment on the message by the cartoonist. (1 x 2) | | (2) |
|  |  |  | |  |
|  | 2.3.4 | Briefly explain how the conditions illustrated by the cartoonist  in the cartoon, influence tourism. (2 x 2) | | (4) |
|  |  |  | |  |
|  | 2.3.5 | Explain which precautionary measures government could  implement to protect coast and marine life. (3 x 2) | | (6) |
|  |  |  | |  |
| 2.4 | FIGURE 2.4 illustrates the formation of the El-niño phenomenon. Study the figure and answer the following questions. | | |  |
|  |  | | |  |
|  | 2.4.1 | Name the ocean numbered A. (1 x 2) | | (2) |
|  |  |  | |  |
|  | 2.4.2 | Name the current B, and briefly explain how this current influence the fishing industry along the west coast of South America, under normal conditions. (2 x 2) | | (4) |
|  |  |  | |  |
|  | 2.4.3 | Briefly explain the formation of the El-niño phenomena. In your explanation you would need to refer to the winds as well as the change in pressure systems. (3 x 2) | | (6) |
|  |  |  | |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | 2.4.4 | The El-niño phenomena brings extreme droughts over large areas of Africa. In an essay (not more than 12 lines), discuss how a drought would affect the environment and the economy of African countries. In your discussion, provide solutions on how to manage drought affected areas. (6 x 2) | (12) |

|  |  |  |  |  |
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| 2.5 | Study FIGURE 2.5 of an imaginery grassland area with moderate temperatures and an average summer rainfall of 750 mm, and answer the following questions. | | |  |
|  |  | | |  |
|  | 2.5.1 | Would you say that the temperature and rainfall has a positive or negative effect on soil formation? (1 x 2) | | (2) |
|  |  |  | |  |
|  |  | Justify your answer in QUESTION 2.5.1 by referring to the influence of temperature and rainfall on the formation of soil. (2 + 2) | | (4) |
|  |  |  | |  |
|  | 2.5.2 | Discuss the impact of humans on the soil in the following regions: | |  |
|  |  |  | |  |
|  |  | (a) | Region A, where sheep farming is being practiced. (2 x 2) | (4) |
|  |  | (b) | Region B, where mining is being practiced. (2 x 2) | (4) |
|  |  | (c) | Region C, where crop farming is being practiced. (2 x 2) | (4) |
|  |  |  | |  |
| 2.6 | Study the extract below together with FIGURE 2 in order to answer the following questions. | | |  |
|  |  | | |  |
|  | “The Coega River Estuary lies a few kilometers east of Port Elizabeth, in Algoa Bay. The bay includes a marine reserve consisting of two main islands: St Croix (now Jahleel) and Bird Island. The former is home to one of only two increasing breeding colonies of African Penguins in the world, while the latter supports the largest Cape Gannet colony anywhere in the world. The Coega River Estuary is therefore a popular destination for eco-tourists, both local and from abroad. This coastal area also provides important economic and social benefits to the local people.  The development of the new harbor and industrial area at Coega will pose an environmental threat to both the estuary and the surrounding coastal areas. In order to sustain the economic and social benefits offered by this coastal area, the coasts need to be developed and managed in a sustainable way.”  [Adapted: *X-Kit Gr. 11, FET Phase*] | | |  |
|  |  |  | |  |
|  | 2.6.1 | Explain what an eco-tourist is? (1 x 2) | | (2) |
|  |  |  | |  |
|  | 2.6.2 | With reference to both the map and the extract, name ONE  example of how the local community and the eco-tourist can  benefit from this area? (2 x 2) | | (4) |
|  |  |  | |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | 2.6.3 | Evaluate what effect the new development will have on the  marine eco-system, the local community and the eco-tourist? (3 x 2) | (6) |
|  |  |  |  |
|  | 2.6.4 | Discuss THREE ways in which the Coega estuarian can be managed in a sustainable way and in so doing, promote  ecotourism. (3 x 2) | (6) |
|  |  |  | **[100]** |

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| **SECTION B: DEVELOPMENT, SUSTAINABILITY, PEOPLE AND THEIR NEEDS** | | |  |
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| **QUESTION 3: [12.1.2 – 12.1.5][12.2.1 – 12.2.4][12.3.1 – 12.3.2]** | | |  |
|  | | |  |
| 3.1 | Refer to the various illustrations in FIGURE 3.1 and answer the following questions. Provide only the letter of the illustration of your choice next to the number of the question. | |  |
|  |  |  |  |
|  | 3.1.1 | Which illustration shows that the developed countries are not really concerned about the less developed countries? |  |
|  |  |  |  |
|  | 3.1.2 | The illustration which depicts third world in first world, and first world in third world situations. |  |
|  |  |  |  |
|  | 3.1.3 | Provide the illustration which shows industrial development in urban areas as motivation for decentralisation in South Africa. |  |
|  |  |  |  |
|  | 3.1.4 | Which illustration shows aid as a solution for poverty? |  |
|  |  |  |  |
|  | 3.1.5 | Identify the illustration which shows multi-corporations who aim exclusively to make a profit from transactions with less developed countries. (5 x 2) | (10) |
|  |  |  |  |
| 3.2 | Study the graphs in FIGURE 3.2 and answer the following questions. | |  |
|  |  |  |  |
|  | 3.2.1 | Which country/region has a population of ±3% and emits (releases) ±6% of the world’s greenhouse gasses? |  |
|  |  |  |  |
|  | 3.2.2 | What % of the world population emits (releases) ±14% of the world’s greenhouse gasses? |  |
|  |  |  |  |
|  | 3.2.3 | Name the country/region which refused to sign the Kyoto-protocol? |  |
|  |  |  |  |
|  | 3.2.4 | Identify TWO countries/regions that were not compelled to sign the Kyoto-protocol. (5 x 2) | (10) |
|  |  |  |  |

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| --- | --- | --- | --- |
| 3.3 | Study the world map (FIGURE 3.3) which illustrates the development indicators of chosen countries together with illustrations I and II, and answer the following questions. | |  |
|  |  |  |  |
|  | 3.3.1 | What does the abbreviation HDI stand for? (1 x 2) | (2) |
|  |  |  |  |
|  | 3.3.2 | Name TWO development indicators represented by the HDI. (2 x 2) | (4) |
|  |  |  |  |
|  | 3.3.3 | Refer to illustrations I and II and provide a continent where the respective families are most likely to live. (2 x 2) | (4) |
|  |  |  |  |
|  | 3.3.4 | Tabulate the differences in the standard of living of the two  families with reference to the HDI. (3 x 2) | (6) |

|  |  |  |  |
| --- | --- | --- | --- |
|  | 3.3.5 | Explain briefly how international aid would be of an  advantage for the family in Illustration II. (2 x 2) | (4) |
|  |  |  |  |
| 3.4 | Refer to the photos in FIGURE 3.4, which illustrates the influence of globalisation on the world market, and answer the following questions. | |  |
|  |  | | |
|  | 3.4.1 | What is meant by the term globalisation? (1 x 2) | (2) |
|  |  |  |  |
|  | 3.4.2 | Photos A and B illustrates the advantages and disadvantages of globalisation. Identify theprocesses of globalisation at A and B respectively and discuss a disadvantage of each process. (2 x 2) | (4) |
|  |  |  |  |
|  | 3.4.3 | Photo C, refers to the influence of multi-national corporations. Briefly explain what a multi-national company is. (1 x 2) | (2) |
|  |  |  |  |
|  | 3.4.4 | Globalisation and multi-national corporations contribute  greatly to the UN’s millenium goals which was put in place  in 2001. In an essay (not more than 12 lines) provide a short overview of the millenium goals. (6 x 2) | (12) |
|  |  | |  |
| 3.5 | Study FIGURES 3.5A and 3.5B in order to answer the following questions. | |  |
|  |  |  |  |
|  | 3.5.1 | Name the type of environmental problems illustrated by Figure A.  (1 x 2) | (2) |
|  |  |  |  |
|  | 3.5.2 | Briefly explain how biodiversity is illustrated in Figure A. (2 x 2) | (4) |
|  |  |  |  |
|  | 3.5.3 | Comment on the impact the person in Figure A has on the sustainability of the area. (3 x 2) | (4) |
|  |  |  |  |
|  | 3.5.4 | The industry in FIGURE 3.5B emits dangerous greenhouse gasses. Explain what greenhouse gasses are. (1 x 2) | (2) |
|  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | 3.5.5 | Name TWO types of greenhouse gasses which are emitted by industries. (2 x 2) | (4) |
|  |  |  |  |
|  | 3.5.6 | Provide possible solutions for the environmental problems caused by the activities in both figures. (4 x 2) | (8) |
|  |  |  |  |
| 3.6 | Read the newspaper clipping in FIGURE 3.6 carefully before answering the following questions. | |  |
|  |  | |  |
|  | 3.6.1 | Briefly explain what a poacher is. (1 x 2) | (2) |
|  |  |  |  |
|  | 3.6.2 | According to the article poaching took place regularly.  Identify ONE cause of poaching in the area. (1 x 2) | (2) |
|  |  |  |  |
|  | 3.6.3 | Describe the values and attitudes of the local community towards wildlife after the establishment of the CAMPFIRE project? (2 x 2) | (4) |

|  |  |  |  |
| --- | --- | --- | --- |
|  | 3.6.4 | Evaluate the success of the CAMPFIRE project in avoiding conflict amongst the people of the local community? (2 x 2) | (4) |
|  |  |  |  |
|  | 3.6.5 | The establishment of national parks is very important for sustainable development. Explain why it is important. (2 x 2) | (4) |
|  |  |  | **[100]** |
|  |  |  |  |
| **QUESTION 4: [12.1.2 – 12.1.5][12.2.1 – 12.2.4][12.3.1 – 12.3.2]** | | |  |
|  | | |  |
| 4.1 | Refer to the developmental models numbered A, B and C in FIGURE 4.1 and write the correct model next to the description in each question. Write only the letter of your choice next to the question number e.g. 4.1.6 B. | |  |
|  |  |  |  |
|  | 4.1.1 | The model is known as the dependancy model and shows that the rich countries become richer, and the poor countries become poorer. |  |
|  |  |  |  |
|  | 4.1.2 | The model which shows that countries pass through different phases of development. |  |
|  |  |  |  |
|  | 4.1.3 | Which model describes development as originating from a dominant area, and that any other area is sub-ordinate to this area? |  |
|  |  |  |  |
|  | 4.1.4 | Identify the model which sees economic growth as a prerequisite for development. |  |
|  |  |  |  |
|  | 4.1.5 | Provide the model which was made known by Friedmann. (5 x 2) | (10) |
|  |  |  |  |

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| --- | --- | --- | --- |
| 4.2 | Study the cartoon FIGURE 4.2 and answer the following questions.  Provide only the letter of your choice from the 4 possibilities given as answers, e.g. 4.2.6 D. | |  |
|  |  |  |  |
|  | 4.2.1 | Which ONE of the following energy sources is not an example of a renewable resource?  A Biomass  B Hydro-Electrical  C Coal  D Wind |  |
|  |  |  |  |
|  | 4.2.2 | According to the illustration, this is the energy source with the greatest potential, but which is used the least.  A Tidal Wave Energy  B Uranium  C Oil And Gas  D Sun Energy |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | 4.2.3 | Which energy source is used in volcanic areas, where the rocks under the earth’s surface are used to heat the water?  A Bio mass  B Oil and gas  C Coal  D Geo thermal |  |
|  |  |  |  |
|  | 4.2.4 | Provide the name of the energy source which produces ethanol fuel through the use of sugar and mielies.  A Bio mass  B Geo thermal  C Uranium  D Oil and gas |  |
|  |  |  |  |
|  | 4.2.5 | Which fossil fuel is the cleanest and causes the least air pollution?  A Gas  B Oil  C Coal  D Geo thermal (5 x 2) | (10) |
|  |  |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 4.3 | Refer to the passage FIGURE 4.3 in order to answer the following questions. | | |  |
|  |  |  | |  |
|  | 4.3.1 | Briefly explain how gender equality is measured? (2 x 2) | | (4) |
|  |  |  | |  |
|  | 4.3.2 | Collecting fire wood can eventually have a negative impact on the production of food. Draw a flow diagram to substantiate this statement. **(TAKE NOTE – Start by using the word DEFORESTATION)** (3 x 2) | | (6) |
|  |  |  | |  |
|  | 4.3.3 | From the passage, provide ONE financial and ONE social indicator of gender inequality. (2 x 2) | | (4) |
|  |  |  | |  |
|  | 4.3.4 | Comment on the importance of gender equality for sustainable development, especially in African countries. (2 x 2) | | (4) |
|  |  |  | |  |
| 4.4 | Study the graph (FIGURE 4.4A), which illustrates a model of development, together with the article (FIGURE 4.4B) in order to answer the following. | |  | |
|  |  | |  | |
|  | 4.4.1 | Define the following terms:   1. Primary industries 2. Tertiary industries (2 x 2) | | (4) |
|  |  |  | |  |
|  | 4.4.2 | Calculate the percentage workers of the secondary industry in the pre-industrial and industrial phases, respectively. (2 x 2) | | (4) |

|  |  |  |  |
| --- | --- | --- | --- |
|  | 4.4.3 | The Nebo community was in the pre-industrial phase of the model in FIGURE 4.4A, before 2001. Substantiate this statement by providing proof from the passage. (2 x 2) | (4) |
|  |  |  |  |
|  | 4.4.4 | Briefly explain why the development of the Nebo community can be described as a bottom-to-top approach to development? (2 x 2) | (4) |
|  |  |  |  |
|  | 4.4.5 | In which phase of the development model (FIGURE 4.4A) would you place the Nebo community during 2006? Substantiate your choice. (3 x 2) | (6) |
|  |  |  |  |
| 4.5 | Refer to the cartoon, FIGURE 4.5, and answer the following questions. | |  |
|  |  |  |  |
|  | 4.5.1 | According to the cartoonist, how does the south differ from the north and how does he try to portray (show) these differences? (3 x 2) | (6) |
|  |  |  |  |
|  | 4.5.2 | According to the cartoonist, there is a delicate balance between north and south. Comment on this balance illustrated in the  figure. (2 x 2) | (4) |
|  |  |  |  |
|  | 4.5.3 | The balance, as illustrated by the cartoonist, is not maintained in reality. Substantiate this statement. (2 x 2) | (4) |
|  |  |  |  |

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| --- | --- | --- | --- |
| 4.6 | Study the graph FIGURE 4.6A and FIGURE 4.6B (which illustrates how solar energy is generated) and answer the following questions. | |  |
|  |  |  |  |
|  | 4.6.1 | Provide the most important suppliers of energy during the years 1850 and 1900 respectively. (2 x 2) | (4) |
|  |  |  |  |
|  | 4.6.2 | Comment on the clear change in the use of energy during  1850 and 1900. (2 x 2) | (4) |
|  |  |  |  |
|  | 4.6.3 | Describe the tendency in the use coal as a source of energy between 2000 to 2050. (1 x 2) | (2) |
|  |  |  |  |
|  | 4.6.4 | Evaluate the advantages of this tendency as observed in your answer in QUESTION 4.6.3. (2 x 2) | (4) |
|  |  |  |  |
|  | 4.6.5 | Scientists believe that generating energy by using the sun, ensures the sustainable use of energy in the future. In an essay (±12 lines) evaluate Africa’s potential for generating solar energy. Refer especially to the following aspects:   1. How solar energy is generated; 2. Advantages of the use of solar energy; 3. Reasons for the poor use of solar energy in Africa. (6 x 2) | (12) |
|  |  |  | **[100]** |
|  |  |  |  |
|  |  | **GRAND TOTAL:** | **300** |