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cross longitudinal river graded 2.2.7 The upper course of a river is characterised by ... GEOGRAPHY PAPER 1GRADE 12NATIONAL SENIOR CERTIFICATEJUNE 2018INSTRUCTIONS AND INFORMATION This question paper consists of THREE questions. (2 x 1) (2)1.3.3 Line A–B indicates a cold front occlusion. sea. You may choose the same drainage pattern more than once.1.2.1 Forms in areas that are geologically young1.2.2 Mainstream often flows through gaps1.2.3 The central point could be a lake or pan1.2.4 It forms in areas where domes and volcanoes occur1.2.5 Found in fold mountain regions and areas of inclined strata1.2.6 Associated with horizontal sedimentary and massive igneous rocks1.2.7 It occurs in areas of major faults (7 x 1) (7)1.3 FIGURE 1.3 represents the occluded stage of a mid-latitude cyclone.1.3.1 Give evidence from the diagram to prove that this is the occluded stage of a mid-latitude cyclone. (2 x 1) (2)1.3.2 Describe ANY TWO expected weather conditions associated with the occluded stage of the mid-latitude cyclone. (2 x 2) (4) 1.4 Study FIGURE 1.4, which shows the influence of slope aspect in a valley.1.4.1 Define the term microclimate. (1 x 2) (2)3.5.2 Identify the urban land-use models in sketches B and C. 2.2.6 A ... (1 x 1) (1)3.3.4 Discuss TWO possible ways that this man's positive perception (understanding) of urban life will be shattered. (2 x 1) (2)2.6.3 Discuss the negative impact that pollution has on our rivers. is uneven and has many obstacles. (2 x 2) (4) 2.6 FIGURE 2.6 is a sketch showing river pollution.2.6.1 What is river pollution? (2 x 2) (4) 3.5.4 Suggest TWO possible reasons why all land-use models today must include zones for greenbelts. dry soils. waterfall. (1 x 1) (1)1.6.3 Describe the gradient in this course (your answer to QUESTION1.6.2) of the river. knickpoint. (2 x 1) (2)2.5.3 State TWO factors evident on the sketch that may influence the infiltration in this drainage basin. (2 x 2) (4)3.4.6 Evaluate the negative impact of the water crisis on employment in rural areas. Do NOT write in the margins of the ANSWER BOOK. (2 x 2) (4)3.3.5 In a paragraph of approximately EIGHT lines, explain why it is still important for planners to manage dwindling (decreasing) rural settlements. (7 x 1) (7)2.2 Various options are provided as possible answers to the following questions.Choose the answer and write only the letter (A–D) next to the question number (2.2.1–2.2.8) in the ANSWER BOOK, for example 2.2.9 D.2.2.1 This is the process whereby a river regains energy and begins to erode vertically: Stream piracy Knickpoint Rejuvenation Base level 2.2.2 The river that has captured the water of another river through headward erosion is called the ... stream. All diagrams are included in the ANNEXURE. (2 x 2)(4)3.6.4 In a paragraph of approximately EIGHT lines, suggest possible short-term and long-term ways that the government can help residents of the Richmond Road informal settlement during the outbreak of fires. COLUMN A COLUMN B 1.1.1 Wind from the land moving towards the sea1.1.2 Develops over the central interior of southern Africa in summer1.1.3 Gusty, strong winds along the entire cold front1.1.4 Wind from the sea moving towards the land1.1.5 Warm moist air moves into the interior from the northeast and it converges with cold, dry air from the southwest1.1.6 They are usually found ahead of an approaching cold front1.1.7 An outward bulge of isobars in a low pressure system towards a high pressure system1.1.8 Moist air from over the ocean to be drawn onto land and leads to rainfall for several days coastal low offshore wind cut off low heat low moisture front line thunderstorm line squall trough onshore wind (8 x 1) (8)1.2 Refer to FIGURE 1.2 on different drainage patterns and match EACH of the descriptions below with ONE of the drainage patterns. Explain how the inversion layer over South Africa developed. (1 x 1) (1)1.6.4 Explain the impact of the sand islands on the streams in this channel. (3 x 1) (3) Comment on how visibility will be influenced, as the cold front occlusion passes over the area indicated by X. (1 x 1) (1)2.4.2 List from the sketch urban activities that contribute to higher temperatures in cities. (1 x 1) (1)1.5.3 Name the type of stream flow in the photograph. (1 x 1) (1)2.3.2 Give ONE reason to support your answer to QUESTION 2.3.1. (1 x 1) (1)2.3.3 Refer to the inversion layers at A and B. valley within a valley. (3 x 2) (6) 2.4 FIGURE 2.4 is a representation of a city's climate.2.4.1 Define a heat island. (4 x 2) (8)[75]SECTION B: RURAL AND URBAN SETTLEMENTSQUESTION 33.1 Study FIGURE 3.1 showing settlement patterns. (1 x 1) (1)1.6.2 In which course of the river does a braided stream form? (2 x 2) (4) Draw a simple, labelled cross-section from A to B, that will represent a cold front occlusion. (4 x 2) (8)3.4 Read the extract in FIGURE 3.4 based on a rural social justice issue.3.4.1 Name the resource, from the passage, that rural people have no access to. (1 x 1) (1)1.4.2 What is the shadow zone? Answer all THREE questions of 75 marks each. (1 x 1) (1)1.4.4 Give evidence from the sketch to support your answer to QUESTION 1.4.3. (1 x 2) (2)1.4.5 Describe the type of vegetation that would grow in the shadow zone. (1 x 1) (1)3.3.2 Suggest a possible reason from the sketch, why this person has left the rural area. (7 x 1) (7)3.3 Refer to the cartoonist's impression of rural-urban migration in FIGURE 3.3.3.3.1 Define the term rural-urban migration. V-shaped valleys. is removing rapids by downward erosion. river gravel. What is a watershed? upper course. Leave a line between subsections of questions answered. little vegetation cover. (2 x 1) (2) Why has the location of land-use zone 1 changed in model C? Write down ONLY the correct settlement pattern next to the question number (3.1.1–3.1.8) in the ANSWER BOOK, for example 3.1.9 Dispersed.3.1.1 Farmers are independent and can experiment with modern equipment3.1.2 Basic services such as schooling are far away3.1.3 These settlements have a long and narrow shape3.1.4 Safety advantages because of large numbers3.1.5 These farms require large amounts of capital to be sustained3.1.6 Farmer has fragmented pieces of land3.1.7 This settlement pattern is located as close as possible to a factor of importance3.1.8 Lack of privacy is a disadvantage of this settlement pattern (8 x 1) (8)3.2 Refer to FIGURE 3.2 on the hierarchy of settlements.3.2.1 Are higher order services likely to be found near the top, or the bottom of the hierarchy?3.2.2 Which settlement type offers rural as well as urban functions?3.2.3 Will highly specialised functions be found in a village or conurbation?3.2.4 Name the urban place that is bigger than a conurbation.3.2.5 State the type of settlement that Durban would fall under in this hierarchy.3.2.6 Is a city or town likely to have a smaller range and more lower-order goods and services?3.2.7 Name the settlement that would comprise a small group of farmsteads. (1 x 1) (1)3.4.3 According to the article, what has contributed to the lack of this resource? Substantiate this statement. (1 x 1) (1) Explain how the position of a watershed can be altered (changed). (3 x 2) (6)1.6.6 Evaluate the impact that braided streams will have on infrastructure.(2 x 2) (4) [75]QUESTION 22.1 Choose the correct word(s) from those given in brackets. Illustrate your answers with labelled diagrams, when instructed to do so. (1 x 1) (1)2.6.2 Name TWO ways in which the river is being polluted in the sketch. (2 x 2) (4)3.6 Read the article in FIGURE 3.6 based on an informal settlement in South Africa.3.6.1 What is an informal settlement? (4 x 2) (8)1.5 Refer to the photograph (FIGURE 1.5) of a periodic/seasonal river in South Africa.1.5.1 What is a periodic/seasonal river? turbulent flow and lateral erosion. (1 x 1) (1)3.6.2 State TWO possible reasons why fires would be a common problem in the Richmond Road informal settlement. SECTION A: PHYSICAL GEOGRAPHY – CLIMATE, WEATHER ANDGEOMORPHOLOGYQUESTION 11.1 Choose a term in COLUMN B that matches the climatological description in COLUMN A. ground zero' in the context of the article? Write neatly and legibly. Account for the formation of a cold front occlusion. Write only the letter (A–I) next to the question number (1.1.1–1.1.8) in the ANSWER BOOK, for example 1.1.9 J. (1 x 1) (1) Comment on the influence of the ITCZ on the position of the inversion layer during the seasons represented by A and B. 2.2.5 An ungraded river profile ... captured captor beheaded antecedent 2.2.3 A temporary base level of erosion occurs when a river flows into/over the ... (2 x 1) (2)3.6.3 Why would it be difficult for emergency vehicles (police, ambulance, fire brigade) to access the Richmond Road informal settlement during a fire? (1 x 1) (1)1.4.3 Is this sketch typical of a valley climate in the northern or southern hemisphere? (1 x 2) (2)1.4.6 In a paragraph of approximately EIGHT lines, explain the formation of the different weather phenomena that occurs in valleys, during the night. is even with no obstacles. (2 x 2) (4)2.6.4 In a paragraph of approximately EIGHT lines, suggest possible ways of managing the problem of river pollution. (1 x 2) (2)1.6.5 Discuss the formation of braided streams. wind gap. (3 x 2) (6) The varied positions of the inversion layer at A and B have different impacts on farming activities over the interior of South Africa. Name land-use zone 1. 2.2.8 High drainage density is influenced by ... (1 x 1) (1) Account for land-use zone 1's location in urban land-use models A and B. is the lowest level by which a river can erode. (1 x 1) (1)1.5.4 State TWO physical factors evident in the photograph that will influence the stream flow of this river. (2 x 2) (4)1.5.5 In a paragraph of approximately EIGHT lines, evaluate the impact that periodic rivers will have on farming communities. (answer to QUESTION 3.4.1) (1 x 1) (1)3.4.4 What is meant by '... (8 x 1) (8) 2.3 FIGURE 2.3 shows the position of the Kalahari/Continental high-pressure cell in winter and summer.2.3.1 Which sketch, A or B, represents the position of the Kalahari/Continental high-pressure cell in winter? Mark allocation is as follows: (2 x 1) (2) means that TWO facts are required for ONE mark each(2 x 2) (4) means that TWO facts are required for TWO marks each If words/action verbs like Name, Identify, Provide and Classify are used in a question, ONE WORD ANSWERS are acceptable.If words/action verbs like Discuss, Define, Explain, Comment, Evaluate, Justify, Suggest and Substantiate are used in a question, FULL SENTENCES or PHRASES are required.All paragraph questions must be answered in FULL sentences. (2 x 1) (2)3.5.3 Refer to land-use zone 1. Number the answers correctly according to the numbering system used in this question paper. Write only the word(s) next to the question number (2.1.1–2.1.7) in the ANSWER BOOK.2.1.1 Tropical cyclones develop between the (30̊ to 60̊/5̊ to 25̊) latitudes.2.1.2 The diameter of a tropical cyclone reaches (30–65 km/300–500 km) in the immature stage.2.1.3 The movement of tropical cyclones generally occurs from (east to west/west to east).2.1.4 Tropical cyclones are associated with (anti-clockwise/clockwise) air circulation in the northern hemisphere.2.1.5 The pressure at the centre of a tropical cyclone is far below 1 000 mb in the (mature/dissipating) stage.2.1.6 Upper air (convergence/divergence) causes moist air to be drawn into the system at the surface during the formation of a tropical cyclone.2.1.7 The difference in (temperature/pressure) causes tropical cyclones to follow erratic (unpredictable) paths. 2.2.4 A dry river valley that is found immediately below the elbow of capture is referred to as the ... (2 x 1) (2)2.5.4 The following questions refer to the watershed. (4 x 2) (8)2.5 Study FIGURE 2.5 which illustrates a drainage basin.2.5.1 Clearly distinguish between a drainage basin and a catchment area as shown in FIGURE 2.5. (2 x 1) (2)2.5.2 Name the TWO sources of water for this drainage basin. (2 x 2) (4)2.4.4 In a paragraph of approximately EIGHT lines, explain how the greenbelt and rivers reduce the heat island effect. porous rocks. (1 x 1) (1)3.3.3 Why would you describe the rural area in the sketch as a 'ghost town'? profile shows the side view of a river, from the source to the mouth. wide valleys. (4 x 2) (8)[75]TOTAL: 225 lower course. (4 x 2) (8)1.6 Refer to FIGURE 1.6 showing a braided stream.1.6.1 What is a braided stream? Start EACH question on a NEW page. (1 x 1) (1)3.4.2 Why is this resource (your answer to QUESTION 3.4.1) considered to be a social justice issue? (1 x 2) (2)3.4.5 Why has it not been possible to provide water infrastructure to the rural community of Beaufort West? laminar flow and vertical erosion. (3 x 2) (6)3.5 Refer to FIGURE 3.5 based on urban land-use models.3.5.1 State the purpose of developing urban land-use models. (2 x 1) (2)2.4.3 What effect will increased temperatures have on urban inhabitants? (1 x 1) (1)1.5.2 Account for the position of the water table in this river, in relation to the earth's surface during the dry season. Match the descriptions below to the correct settlement patterns. (2 x 2) (4) How can the change in the position of the watershed result in river capture? steep slopes.

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