CARIBBEAN EXAMINATIONS COUNCIL

CARIBBEAN SECONDARY EDUCATION CERTIFICATE® EXAMINATION

GEOGRAPHY

Paper 01 – General Proficiency

1 hour 15 minutes

06 JUNE 2019 (a.m.)

READ THE FOLLOWING INSTRUCTIONS CAREFULLY.

1. This test consists of 60 items. You will have 1 hour and 15 minutes to answer them.

2. In addition to this test booklet, you should have an answer sheet.

3. Each item in this test has four suggested answers lettered (A), (B), (C), (D). Read each item you are about to answer and decide which choice is best.

4. On your answer sheet, find the number which corresponds to your item and shade the space having the same letter as the answer you have chosen. Look at the sample item below.

   Sample Item

   Hurricanes in the Caribbean area are MOST likely to occur during

   (A) April–June
   (B) February–March
   (C) July–September
   (D) October–December

   Sample Answer

   The correct answer to this item is "July–September", so (C) has been shaded.

5. If you want to change your answer, erase it completely before you fill in your new choice.

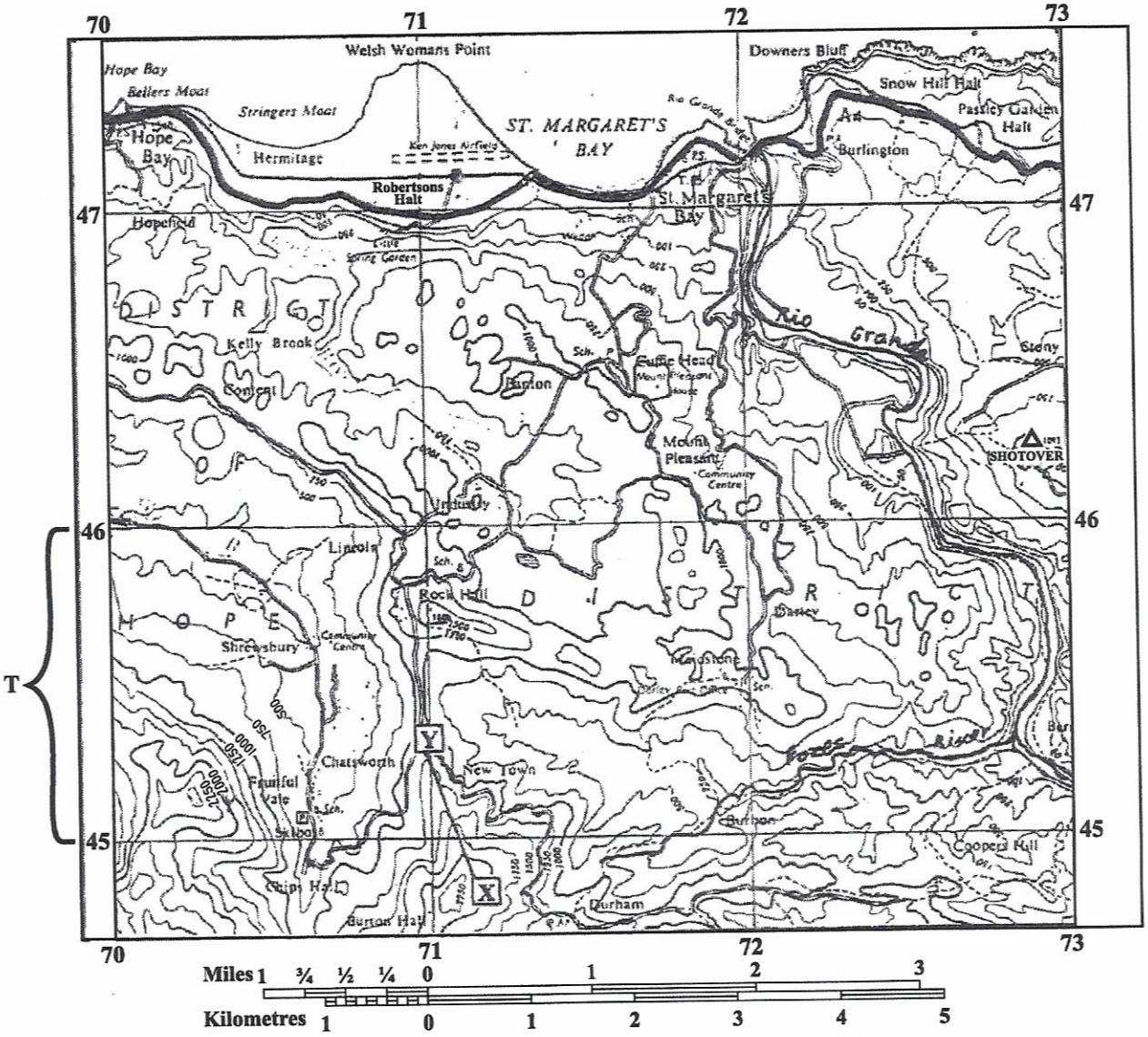
6. When you are told to begin, turn the page and work as quickly and as carefully as you can. If you cannot answer an item, go on to the next one. You may return to that item later.

7. You may use a silent, non-programmable calculator to answer items.

8. The use of geometrical instruments is permitted.

DO NOT TURN THIS PAGE UNTIL YOU ARE TOLD TO DO SO.

Items **1–4** refer to the following map extract at a scale of 1:50 000.



GO ON TO THE NEXT PAGE

1. What is the direction of the trigonometrical station at Shotover (729463) from Robertsons Halt (711471)?

(A) Northeast
(B) Southeast
(C) Northwest
(D) Southwest

2. What is the contour interval, in feet, in grid square 7045 (labelled T)?

(A) 50
(B) 100
(C) 150
(D) 250

3. The height, in feet, of the highest point in grid square 7045 (labelled T) is approximately

(A) 2250
(B) 2500
(C) 2750
(D) 3000

4. What is the grid bearing of Robertsons Halt (711471) from the trigonometrical station at Shotover (729463)?

(A) 65°
(B) 115°
(C) 295°
(D) 355°

Items 5–7 refer to the following table showing annual rainfall and temperature figures for a certain location.

Months	J	F	M	A	M	J	J	A	S	O	N	D
Temp (°C)	26	26	26	27	28	27	25	25	25	26	26	27
Rainfall (mm)	155	160	225	275	210	125	100	150	180	260	250	210

5. The annual temperature range for this location is

(A) 2 °C
(B) 3 °C
(C) 25 °C
(D) 27 °C

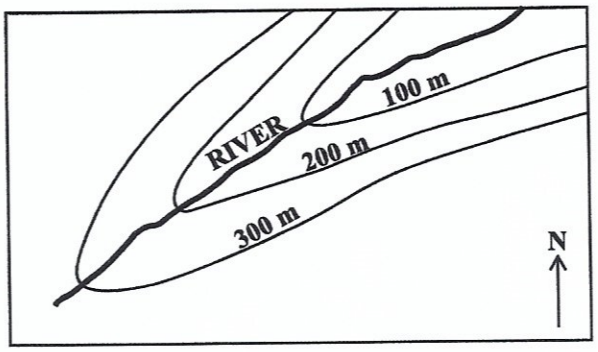
6. The rainfall pattern indicates

(A) rain throughout the year
(B) rain only in the cooler season
(C) rain only in the warmer season
(D) little variation in the rainfall from month to month

7. The type of climate experienced at this location may be described as

(A) savannah
(B) equatorial
(C) tropical marine
(D) tropical continental

Item **8** refers to the following diagram of a river.



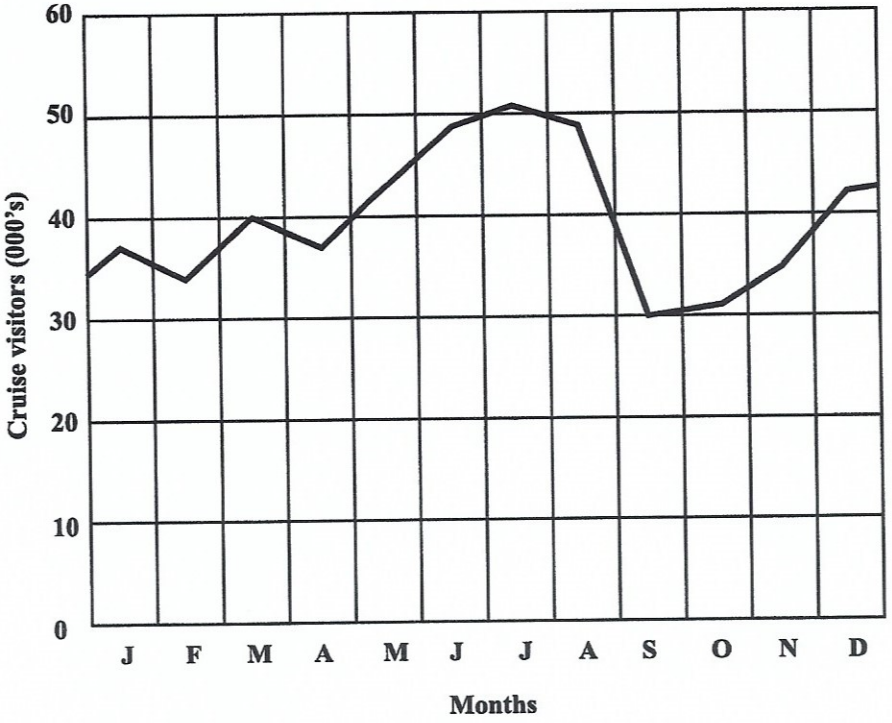
8. In what general direction is the river flowing?

(A) East to west
(B) North to south
(C) Southwest to northwest
(D) Southwest to northeast

9. Which of the following phrases refers to eastings?

(A) Vertical lines that decrease in value eastwards
(B) Vertical lines that increase in value eastwards
(C) Horizontal lines that increase in value northwards
(D) Horizontal lines that decrease in value northwards

Items **10–11** refer to the following graph that shows variations in the number of cruise ship passengers visiting a Caribbean island in 2017.



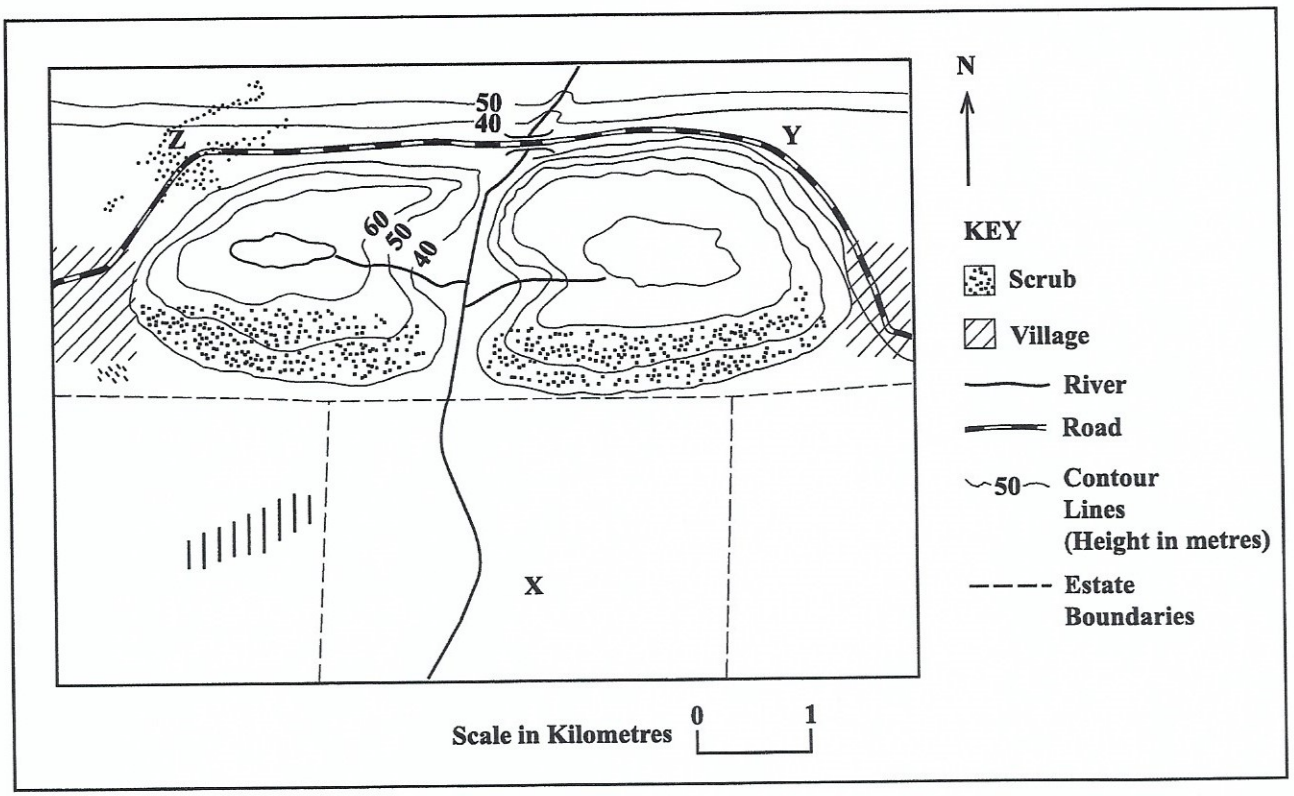
10. The LOWEST number of visitors in any month was

(A) 3 000
(B) 3 500
(C) 30 000
(D) 30 500

11. The HIGHEST number of visitors arrived during

(A) spring
(B) winter
(C) autumn
(D) summer

Items **12–13** refer to the following sketch map of an area.



12. Which of the following types of settlements will MOST likely develop between **Y** and **Z**?

(A) Linear
(B) Isolated
(C) Dispersed
(D) Nucleated

13. What type of farming system is most likely to exist at **X**?

(A) Poultry rearing
(B) Shifting cultivation
(C) Subsistence farming
(D) Commercial arable farming

14. The relationship between longitude and time is that the time changes by

(A) 1 hour for 20°
(B) 1 minute for 4°
(C) 4 minutes for 1°
(D) 24 hours for 180°

15. The MAIN factor which explains the difference between weather and climate is

(A) time
(B) rainfall
(C) location
(D) temperature

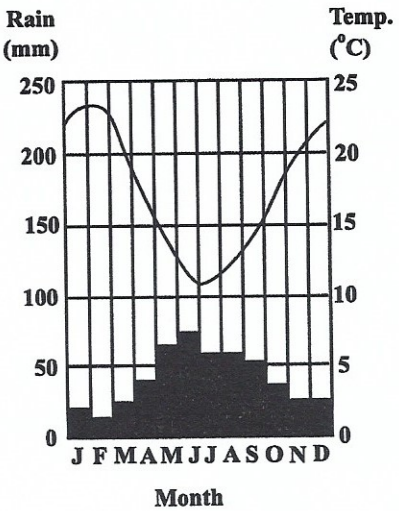
16. A traveller made the following observations.

"It was hot and rained heavily every day; the trees grew very tall and there was little undergrowth."

Which of the following forest vegetation types was the traveller describing?

(A) Montane
(B) Deciduous
(C) Equatorial
(D) Semi-evergreen

Items 17–18 refer to the following rainfall and temperature graph.



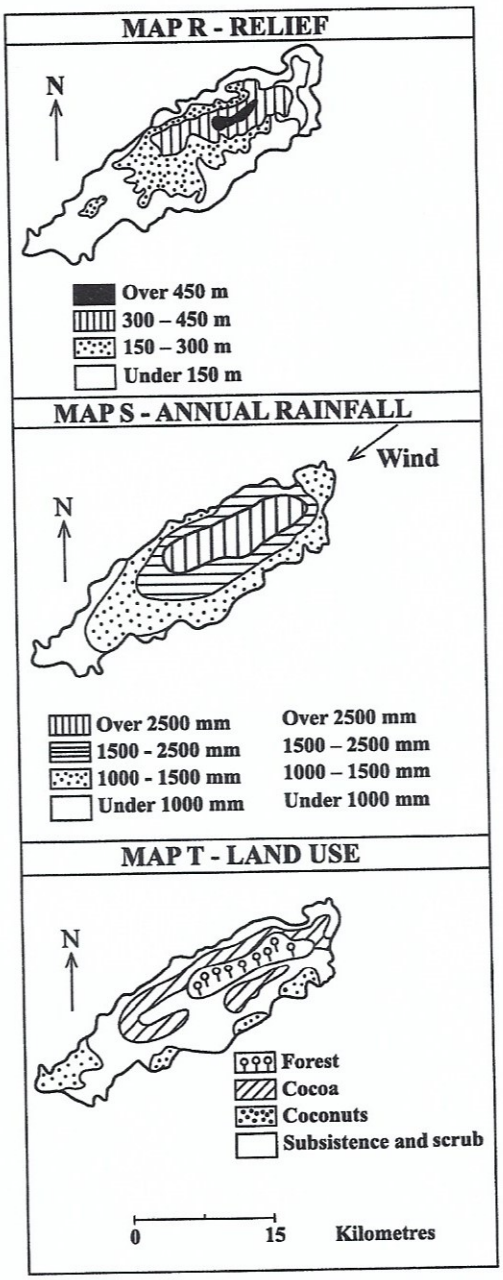
17. Which of the following statements is true based on the information given in the graph?

(A) The hottest months of the year are also the driest.
(B) The hottest months of the year are also the wettest.
(C) There is little variation in rainfall throughout the year.
(D) There is little variation in temperature throughout the year.

18. The annual range of temperature is APPROXIMATELY

(A) 5°
(B) 12°
(C) 15°
(D) 24°

Items **19–20** refer to the following maps of Tobago.



19. Most of the area of forest vegetation shown in Map T is found in areas with

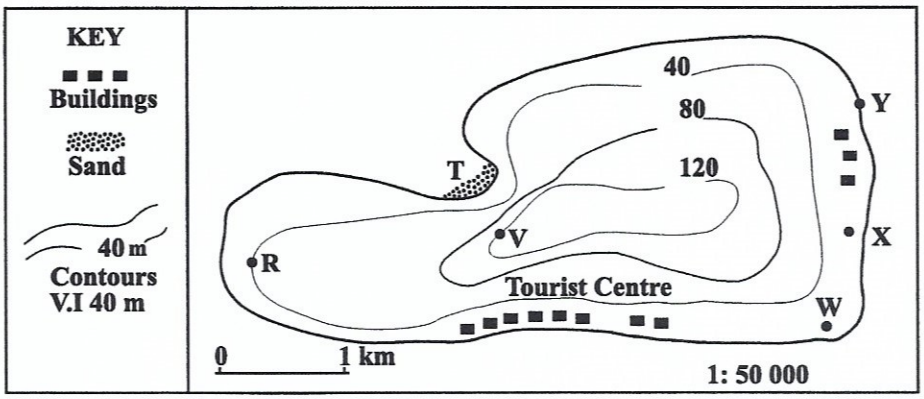
(A) cocoa cultivation
(B) 1500 mm of rainfall
(C) low annual rainfall
(D) the highest elevation

20. The information given by the maps indicates that the areas of coconut cultivation

I. are under 150 m in height
II. have under 1500 mm of rainfall
III. have under 1000 mm of rainfall

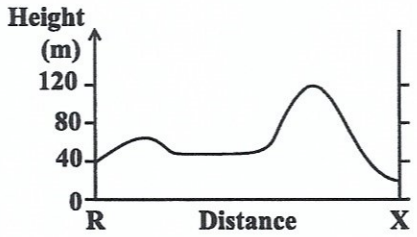
(A) I and II only
(B) I and III only
(C) II and III only
(D) I, II and III

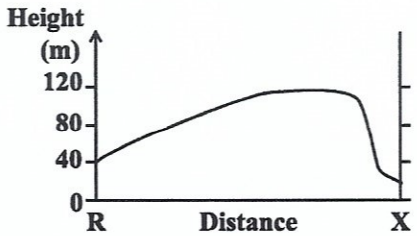
Items 21–23 refer to the following map.

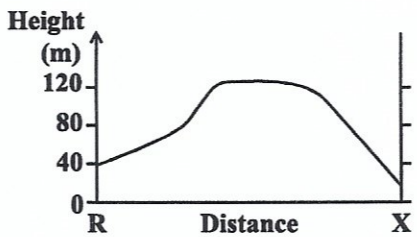


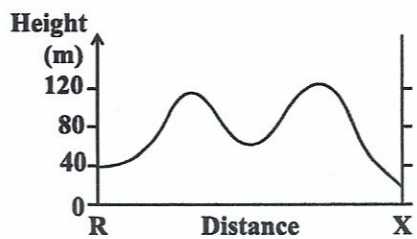
Scale: 2 cm:1 km

21. A contour profile from Point **R** to Point **X** would look like

(A)


(B)


(C)


(D)


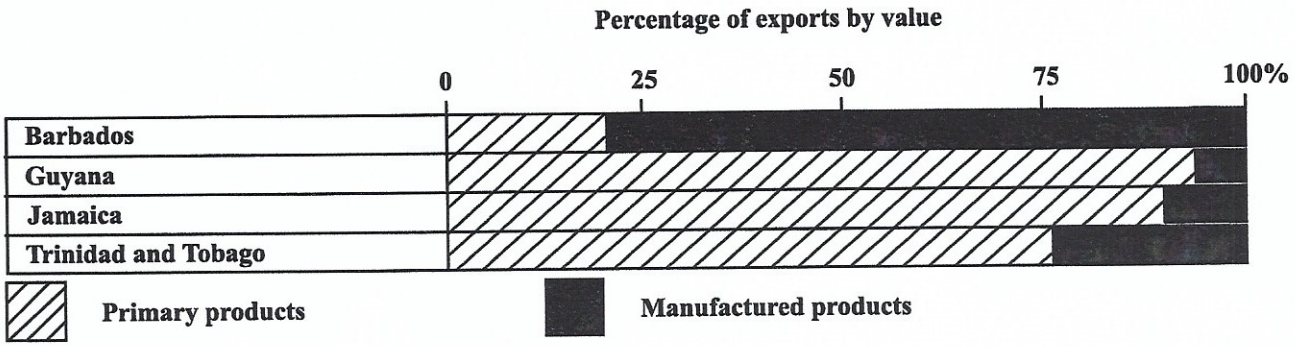
22. Which of the following features are found at **T** on the map?

(A) Bay and beach
(B) Headland and bay
(C) Beach and headland
(D) Cliffs and coral reefs

23. Which of the following words BEST describes the slope represented by the contour lines between **T** and **V**?

(A) Steep
(B) Gentle
(C) Moderate
(D) Undulating

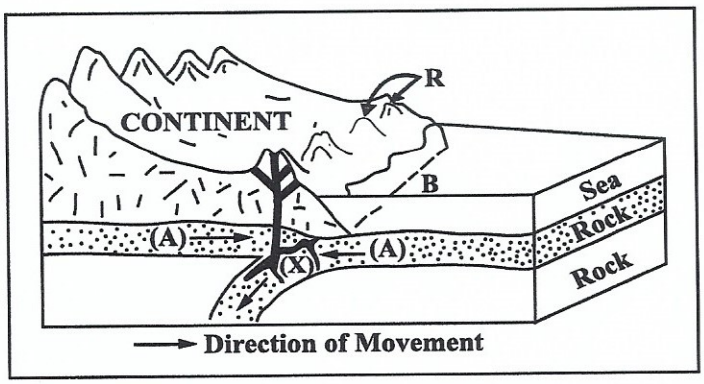
Item 24 is based on the following graph which shows the relative value of exports for primary and manufactured products from four Caribbean territories in one year.



24. For which of the following territories was the value of manufactured products exported GREATER than 75% of the total exports?

(A) Barbados
(B) Guyana
(C) Jamaica
(D) Trinidad and Tobago

Items 25–26 refer to the following diagram of the movement at a plate margin.



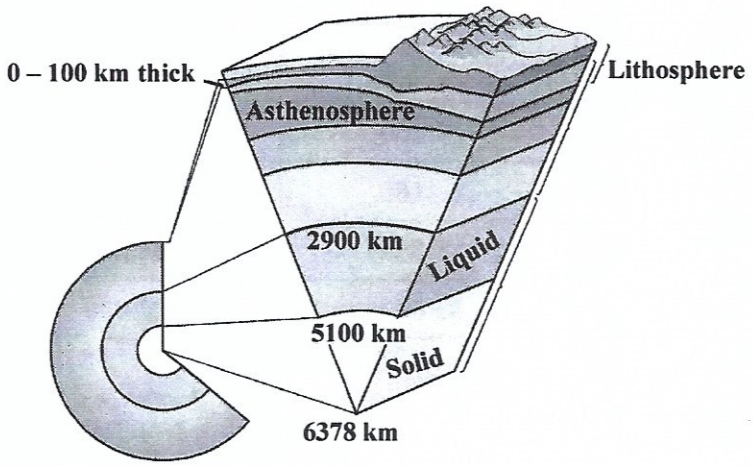
25. Which of the following plate margins is shown?

(A) Divergent
(B) Transform
(C) Convergent
(D) Conservative

26. Which of the following features are shown at **R**?

(A) Volcanoes
(B) Lava plateaux
(C) Fold mountains
(D) Block mountains

Item **27** refers to the following diagram of a cross-section of the earth's crust.



Retrieved on 6 December 2017 from
Source: http://www.geology.sdsu.edu/how_volcanoes_work/Heat.html

27. The section which starts at 2900 km from the surface is called the

(A) core
(B) sima
(C) crust
(D) mantle

Items **28–29** refer to the following table which gives population information on some Caribbean countries.

Country	Area (in sq. miles)	Population	Density (per sq. mile)
Jamaica	4 400	2 771 026	630
Barbados	166	278 580	—
Trinidad and Tobago	1 864	1 144 249	614
Guyana	83 000	722 000	9

28. Barbados has a population density of approximately

(A) 100
(B) 166
(C) 1678
(D) 2788

29. A comparison of the population densities of the four countries shows that

(A) Guyana has a higher density than Jamaica
(B) Barbados has a lower density than Jamaica
(C) Barbados has a higher density than Guyana
(D) Guyana has approximately the same density as Trinidad and Tobago

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30. As one climbs a mountain, the surrounding temperature

(A) decreases
(B) increases
(C) fluctuates
(D) remains constant

31. How does vegetation contribute to the development of soils?

(A) It increases the depth of soil.
(B) It decomposes to form humus.
(C) It provides the parent material.
(D) It decomposes to produce inorganic matter.

32. The slow downhill movement of debris and soil under the influence of gravity may BEST be described as

(A) a landslide
(B) soil creep
(C) soil erosion
(D) mass wasting

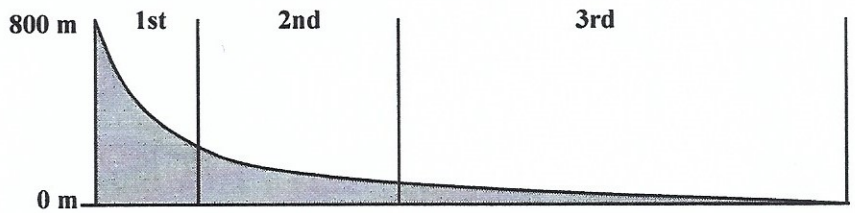
33. What processes cause the formation of an igneous rock?

(A) Magma and lava are cooled to form crystals.
(B) Sediments are compacted and cemented.
(C) Rocks are hardened due to high temperatures.
(D) Rocks are changed due to intense heat and pressure.

34. With what type of plate margins are volcanoes in the Caribbean associated?

(A) Divergent
(B) Transform
(C) Convergent
(D) Constructive

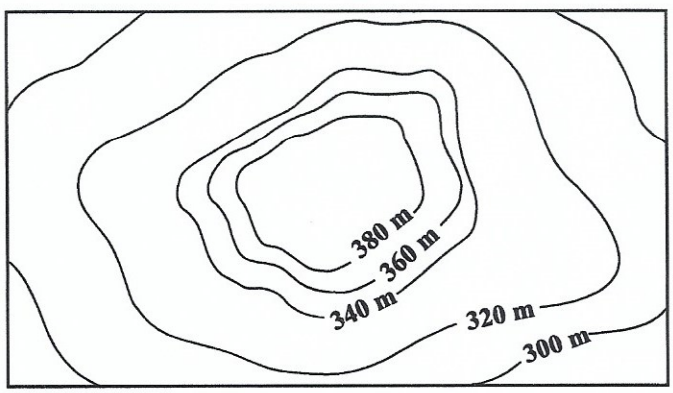
Item **35** refers to the following profile of a river.



35. Which of the following processes is dominant in the first stage?

(A) Erosion
(B) Deflation
(C) Deposition
(D) Transportation

Item **36** refers to the following contour map of an area.



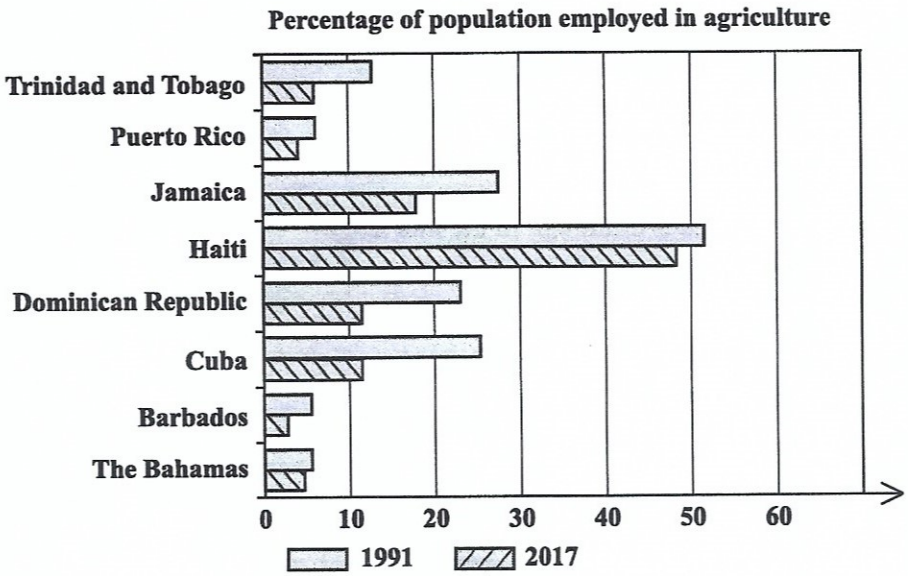
36. The type of slope shown in the landform may be described as

(A) gentle
(B) convex
(C) uniform
(D) concave

37. Which of the following features exerts the GREATEST influence on tourism in the Caribbean?

(A) Climate
(B) Carnival
(C) Coral reef
(D) Tropical forest

Items **38–40** refer to the following graph which shows the percentage of total population employed in agriculture in 1991 and 2017 in some Caribbean territories.



38. Which of the following countries had the LARGEST percentage of people employed in agriculture?

(A) Haiti
(B) Jamaica
(C) Barbados
(D) Puerto Rico

39. In 2017, the country with the LOWEST percentage of people employed in agriculture was

(A) Jamaica
(B) Barbados
(C) Puerto Rico
(D) The Bahamas

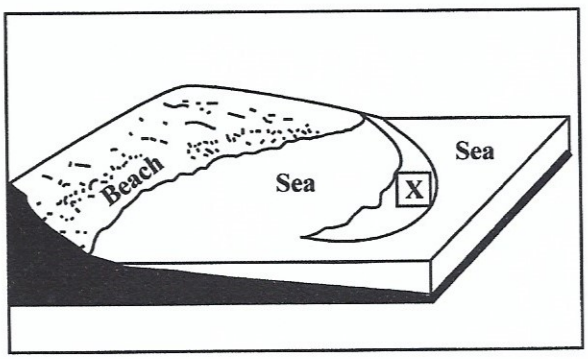
40. In which of the following countries did employment in agriculture experience the greatest decline?

(A) Haiti, The Bahamas, Puerto Rico
(B) Barbados, Haiti, The Bahamas
(C) Dominican Republic, Jamaica, Haiti
(D) Dominican Republic, Cuba, Trinidad and Tobago

41. Which of the following features is an example of intrusive volcanicity?

(A) Sill
(B) Crater
(C) Caldera
(D) Lava plateau

Item 42 refers to the following diagram of a coastal area.



42. Which of the following processes is MOST likely to result in the formation of the feature labelled **X**?

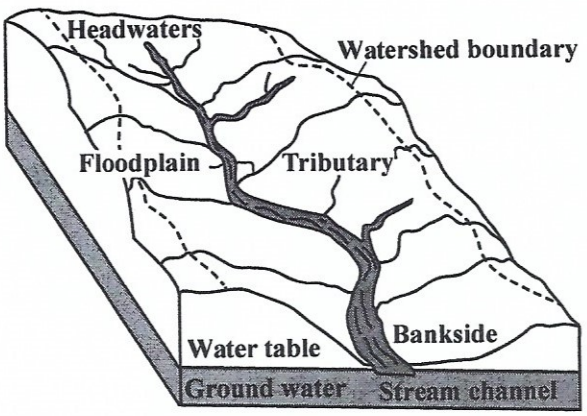
I. Longshore drift
II. Wave erosion
III. Wave deposition

(A) I and II only
(B) I and III only
(C) II and III only
(D) I, II and III

43. Which of the following factors is MAINLY responsible for high temperatures in the Caribbean?

(A) Altitude
(B) Latitude
(C) Rainfall
(D) Humidity

Items 44–45 refer to the following diagram of a mountain with tributaries leading to a river that flows into the sea.



44. What do the dotted lines in the diagram represent?

(A) A plateau
(B) The hilltop
(C) The watershed
(D) The drainage basin

45. Which of the following terms describes the drainage pattern of the area?

(A) Trellis
(B) Radial
(C) Parallel
(D) Dendritic

46. Which of the following sources of energy is LEAST likely to harm the environment?

(A) Oil
(B) Solar
(C) Nuclear
(D) Natural gas

47. Which of the following is an effect of preserving mangrove wetlands on the coast?

(A) Ease in building ports
(B) Smoothness of the coastline
(C) Increased erosion of the coastline
(D) Reduced erosion of the coastline

48. The process by which beach material is moved along the coast by wave action is called

(A) solution
(B) refraction
(C) longshore drift
(D) hydraulic action

49. Which of the following resources is MOST important when considering the location of primary industries?

(A) Power
(B) Labour
(C) Transportation
(D) Raw materials

50. Which of the following is a MAJOR problem of urban areas in Caribbean territories?

(A) Shortage of labour
(B) Poor shopping facilities
(C) Absence of paved roads
(D) Poor housing conditions

51. Which of the following situations contributes MOST to the pollution of the environment of capital cities in CARICOM?

(A) Discharge of chemicals into the sea
(B) Discharge of fish waste into the sea
(C) Exhaust fumes from motor vehicles
(D) Accumulation of garbage from factories

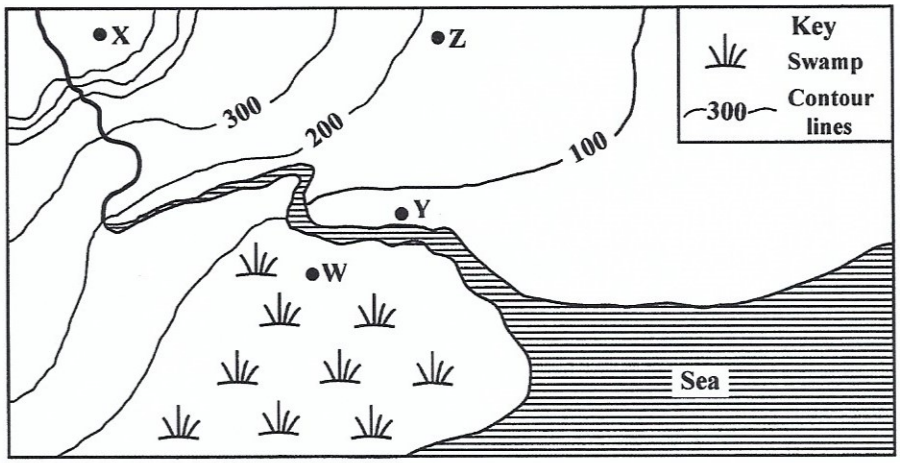
52. Harmful gases, liquids and solids which affect the earth and its inhabitants are examples of

(A) pollutants
(B) sediments
(C) solid waste
(D) contaminants

53. Which of the following statements about soil is generally true?

(A) The depth increases as moisture content increases.
(B) The fertility increases as the humus content increases.
(C) The acidity increases as the humus content decreases.
(D) The acidity increases as the moisture content decreases.

Item **54** refers to the following sketch map of a coastal area.



54. Which of the following areas on the map would early settlers MOST likely have chosen to build a town?

(A) W
(B) X
(C) Y
(D) Z

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55. Which of the following features indicates an UNHEALTHY coral reef?

(A) Brightly coloured coral
(B) Large number of parrot fish
(C) Large variety of species of coral
(D) Extensive area of bright white coral

56. Which of the following conditions is NOT likely to result from the setting up of secondary (manufacturing) industries in the Caribbean?

(A) Increased export
(B) Reduced cost of living
(C) Increasedemploymentopportunities
(D) Reduced importation of consumer goods

57. Which of the following practices may help to reduce problems of pollution created by household waste?

(A) Depositing in the sea
(B) Piling up in secluded spots
(C) Dumping along water courses
(D) Burying and covering with soil

58. The bauxite industry in the Caribbean has declined MAINLY because

(A) the cost of production has become extremely high
(B) the quality of the region's bauxite has become substandard
(C) there is a shortage of skilled labour to work in the industry
(D) the demand for bauxite has fallen on the international market

59. Which of the following conditions is NOT a problem affecting industrial development in the Caribbean?

(A) Size of market
(B) Size of labour force
(C) Availability of capital
(D) Quantity of raw materials

60. Which of the following actions can help to reduce the emission of greenhouse gases?

I. Increased use of chlorofluorocarbons (CFCs)
II. Increased use of solar power
III. Reduction in the use of fossil fuels

(A) I and II only
(B) I and III only
(C) II and III only
(D) I, II and III

END OF TEST

IF YOU FINISH BEFORE TIME IS CALLED, CHECK YOUR WORK ON THIS TEST.