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CANDIDATE – PLEASE NOTE!

PRINT your name on the line below and return this booklet with the answer sheet. Failure to do so may result in disqualification.

_____

TEST CODE **01225010**

FORM TP 2016076

MAY/JUNE 2016

CARIBBEAN EXAMINATIONS COUNCIL

CARIBBEAN SECONDARY EDUCATION CERTIFICATE® EXAMINATION

GEOGRAPHY

Paper 01 – General Proficiency

1 hour 15 minutes

07 JUNE 2016 (p.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) February–April
   (B) April–June
   (C) July–September
   (D) October–February

   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.

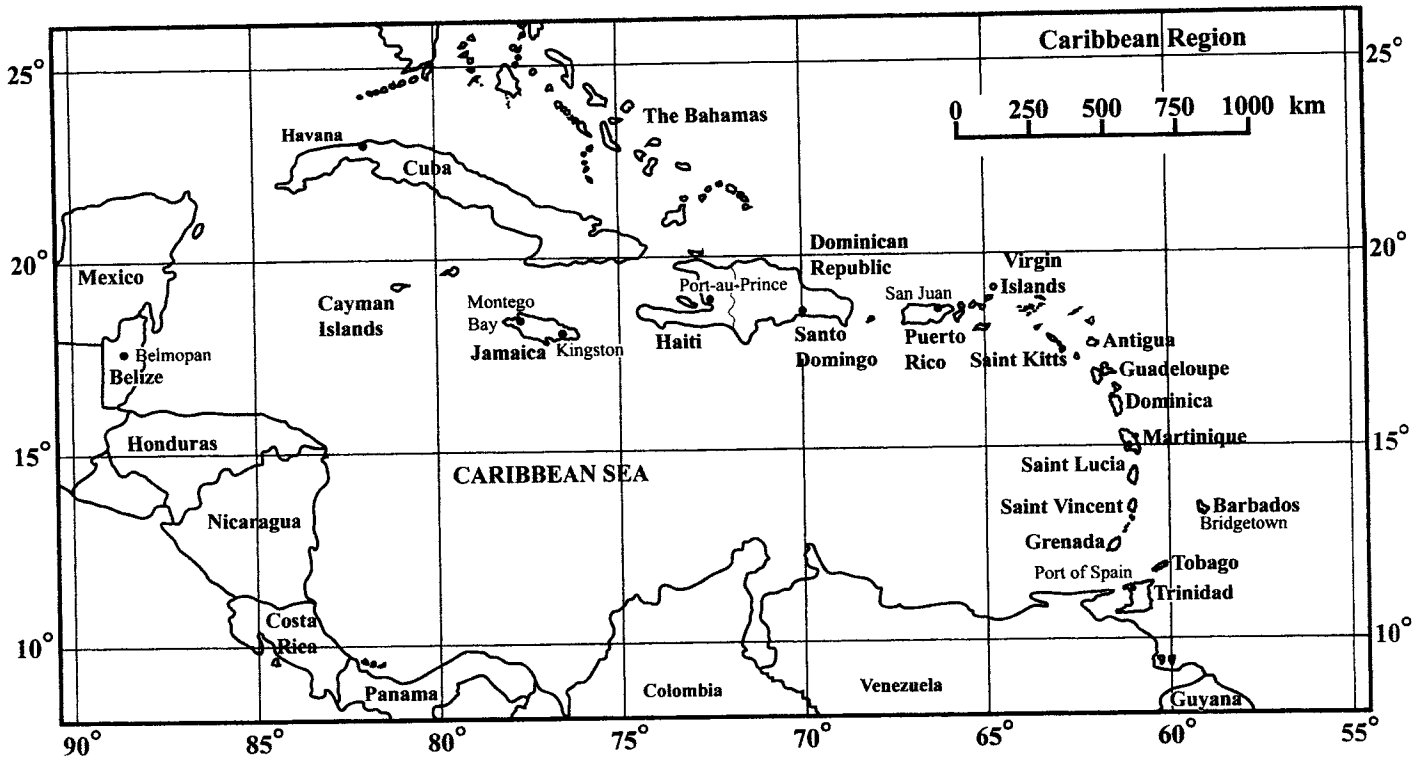
DO NOT TURN THIS PAGE UNTIL YOU ARE TOLD TO DO SO.

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Items 1–5 refer to the following map of the Caribbean region.



1. Which island is located at 14° N 61° W?

(A) Trinidad
(B) Barbados
(C) Saint Lucia
(D) Saint Vincent

2. Havana is located at

(A) 28° N 82° E
(B) 28° N 88° W
(C) 23° N 88° E
(D) 23° N 82° W

3. Which city is located 1000 km from Santo Domingo?

(A) San Juan
(B) Kingston
(C) Montego Bay
(D) Port-au-Prince

4. An aeroplane leaves Port of Spain, Trinidad, for Kingston, Jamaica. In which general direction should it fly?

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

5. If the time in Santo Domingo is 3.00 p.m., what is the time in Belmopan?

(A) 2.00 a.m.
(B) 2.00 p.m.
(C) 4.00 a.m.
(D) 4.00 p.m.

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Item **6** refers to the following statement.

The horizontal distance between two points on a slope is 400 m and the difference in height is 80 m.

6. What is the gradient of the slope?

(A) 1 in 5
(B) 1 in 8
(C) 1 in 10
(D) 1 in 20

7. Which of the following statements about lines of latitude is true?

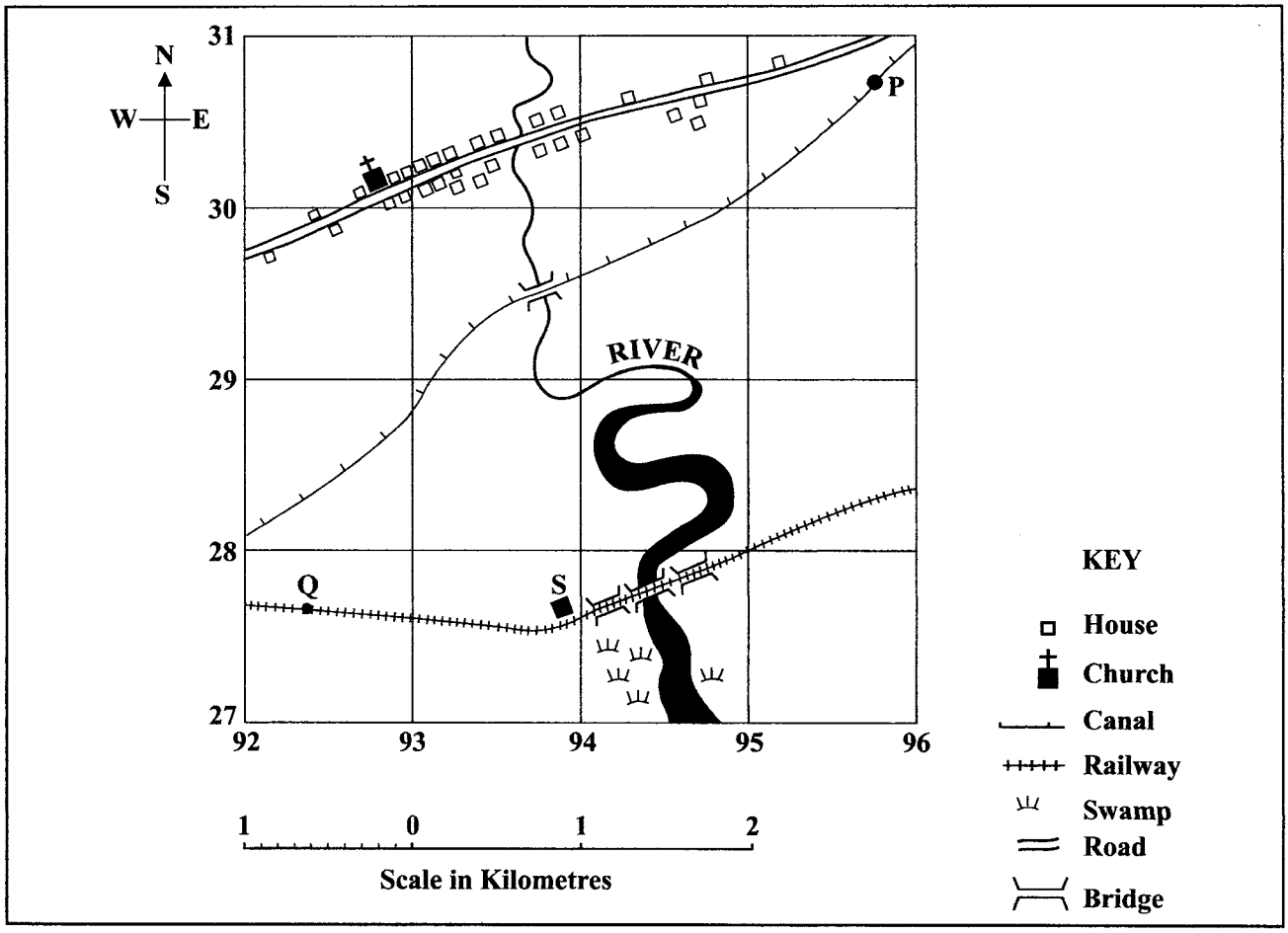
(A) They meet at the poles.
(B) They are all great circles.
(C) They represent angular distance from the Prime Meridian.
(D) They represent angular distance north and south of the Equator.

GO ON TO THE NEXT PAGE

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Items **8–10** refer to the following sketch map.



8. The feature labelled **S** is situated in grid square

(A) 2728
(B) 2793
(C) 9327
(D) 9394

9. What is the form of the settlement in which the church is located?

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

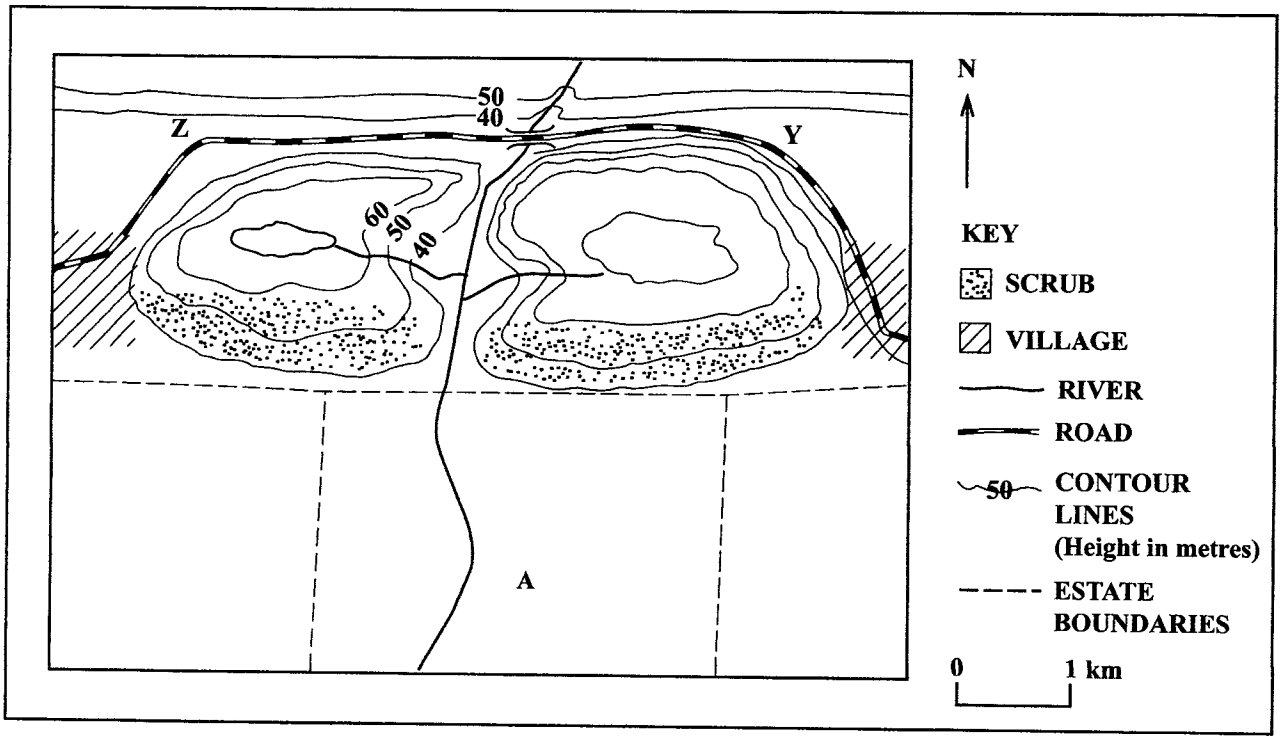
10. The feature passing through **Q** is a

(A) road
(B) river
(C) canal
(D) railway

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Items **11–12** refer to the following sketch map.



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

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

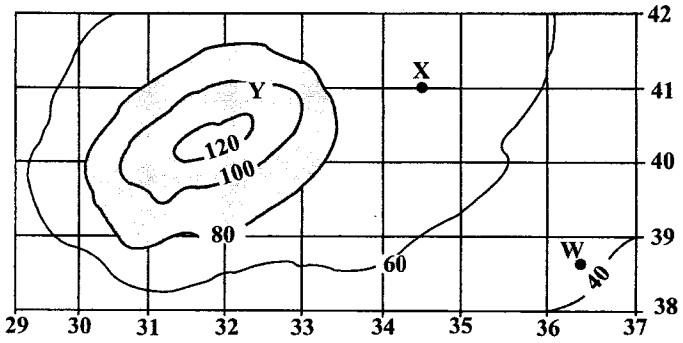
12. The type of farming system which is MOST likely to exist at **A** is

(A) poultry rearing
(B) shifting cultivation
(C) subsistence farming
(D) large-scale commercial

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Items **13–16** refer to the following contour sketch map (contours in metres) showing Points **X** and **W**, and Area **Y** (shaded).



13. The grid reference of Point **X** is

(A) 345410
(B) 345415
(C) 410345
(D) 415345

14. The bearing of **X from W** is approximately

(A) 045°
(B) 135°
(C) 225°
(D) 315°

15. The vertical interval is

(A) 20 m
(B) 40 m
(C) 60 m
(D) 80 m

16. The shaded landform shown at **Y** is a

(A) hill
(B) ridge
(C) valley
(D) spur

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Items **17–19** are based on the following table showing average rainfall and temperature figures for a certain location.

Month	**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

17. The annual temperature range is

(A) 2 °C
(B) 3 °C
(C) 25 °C
(D) 28 °C

18. 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 one month to the next

19. The climatic type indicated is described as

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

Items **20–21** refer to the following table which provides data for four Caribbean countries for the year 2000.

Country	**Population Density (per km²)**	**Area (km²)**	**Population**
Barbados		432	268 792
Guyana	3.5	21 500	751 223
Jamaica	237.3	10 990	2 607 632
Trinidad and Tobago	246.2	5 128	1 262 366

20. Based on the data in the table, how many persons per square kilometre did Barbados have?

(A) 100
(B) 166
(C) 1 678
(D) 2 788

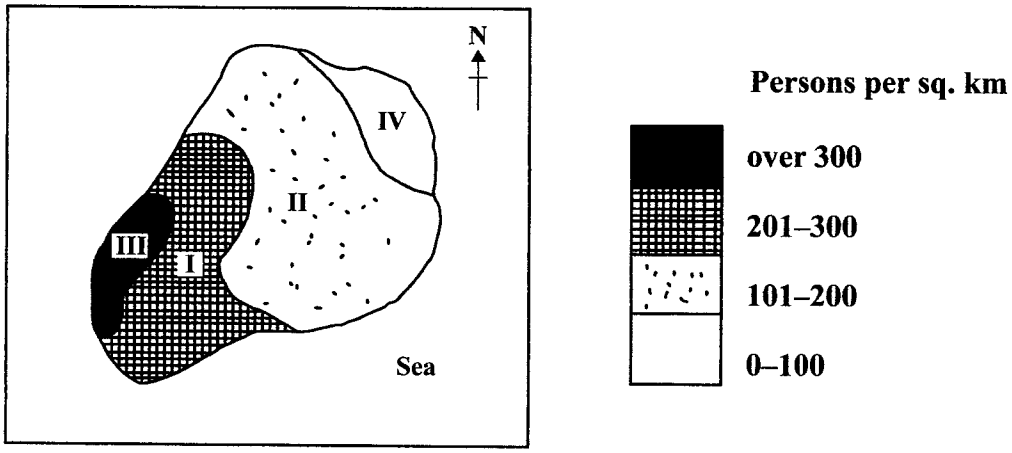
21. Based on the data in the table, which of the following statements about the country with the LOWEST population density is true?

(A) It has the largest area.
(B) It has the smallest area.
(C) It has the largest population.
(D) It has the smallest population.

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Items 22–23 refer to the following map of an island showing the number of persons per square kilometre.



22. Which part of the island (I, II, III or IV) has the SMALLEST population?

(A) I
(B) II
(C) III
(D) IV

23. The map shows population

(A) change
(B) density
(C) movement
(D) distribution

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Items 24–25 refer to the data in the following table regarding world production of aluminium (million tonnes) in selected countries for 2003.

Country	Aluminium Production (million tonnes)	Country	Aluminium Production (million tonnes)
Australia	1.8	Mozambique	0.4
Argentina	0.3	Norway	1.2
Brazil	1.4	Spain	0.4
Canada	2.8	Russia	3.5
China	5.4	UK	0.4
France	0.5	USA	2.7
West Germany	0.8	Venezuela	0.6
Italy	0.2		
World Total	**27.7**		

24. Which country produced **just over one-tenth** of the aluminium in the world in 2003?

(A) USA
(B) Russia
(C) Canada
(D) Argentina

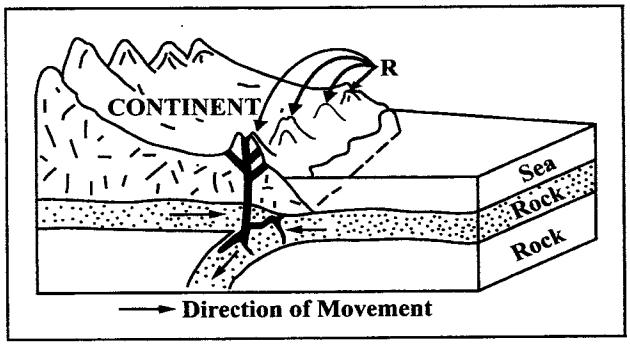
25. The number of tonnes of aluminium produced by Norway was

(A) 1 200
(B) 12 000
(C) 120 000
(D) 1 200 000

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Items 26–27 refer to the following block diagram showing the movement at a plate margin.



26. Which of the following plate margins is shown?

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

27. The features shown at **R** are

(A) volcanoes
(B) fold mountains
(C) block mountains
(D) lava plateaux

28. A volcanic spine can develop when

(A) the lava is viscous
(B) a caldera is present
(C) the explosion is violent
(D) ash and cinder are ejected

29. Potholes will tend to form on the bed of a river if the river has a

(A) low volume and flows over a steep gradient
(B) low volume and flows over a gentle gradient
(C) high volume and flows over a steep gradient
(D) high volume and flows over a gentle gradient

30. Which of the following statements explains how vegetation contributes to the development of soils?

(A) Decaying vegetation produces a habitat for earthworms.
(B) Vegetation decomposes to produce the organic matter in the soil.
(C) Roots, twigs and leaves are washed downwards to increase the depth of soil.
(D) Vegetation provides the parent material which helps in the formation of soil structure.

31. Which of the following statements may explain why some areas in Caribbean territories are sparsely settled?

I. They are hilly and forested.
II. They have no mineral resources.
III. Transport links are generally poor.

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

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32. Which of the following factors is the MOST important contributor to the growth of cities in the Caribbean?

(A) Rural–urban migration
(B) Urban–rural migration
(C) International migration
(D) Changes in the urban boundaries

33. Which of the following conditions is a problem in urban areas of the Caribbean?

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

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

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

35. Which of the following factors may increase the rate of soil erosion?

I. Afforestation
II. Very intense rainfall
III. Poor cultivation techniques

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

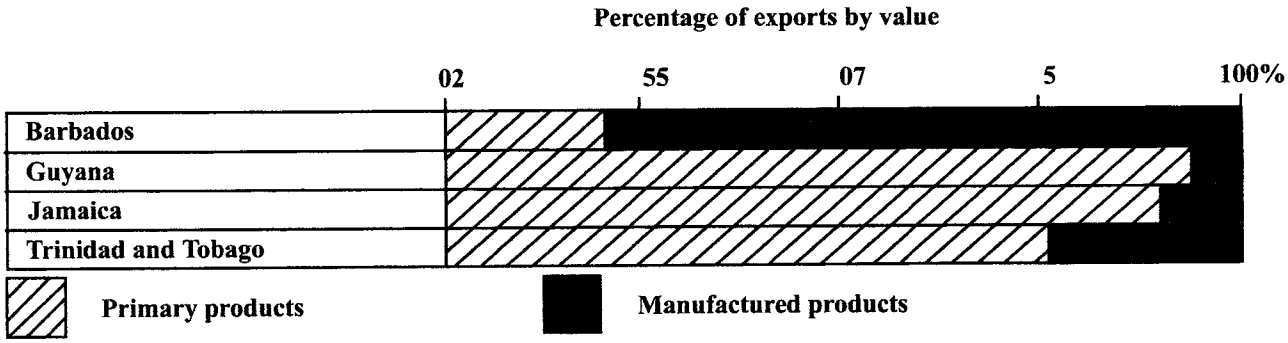
36. Which of the following features is MOST typical of wheat farming as practised in the prairies of Canada?

(A) Small acreage
(B) Multi-crop system
(C) Large labour force
(D) Intensive mechanization

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Items 37–38 are based on the following graph which shows the relative value for exports of primary and manufactured products from four Caribbean territories in one year.



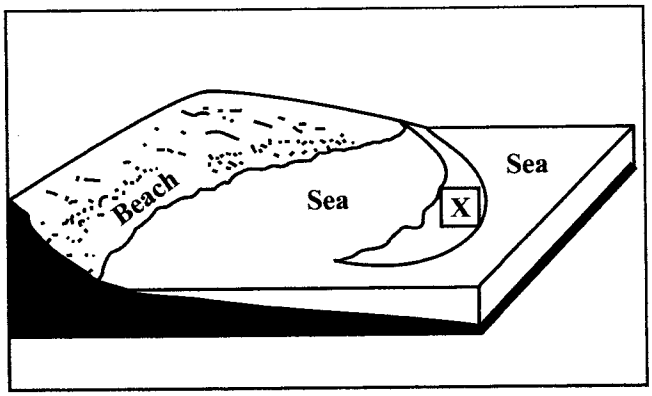
37. For which of the following territories was the value of manufactured products exported GREATER than 75% of the total exports?

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

38. In which of the following territories was there the GREATEST difference in value between primary products and manufactured products?

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

Item 39 refers to the following diagram of a coastal area.



39. The feature **X** is MOST likely the result of

I. longshore drift
II. wave deposition
III. wave erosion

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

40. Which of the following factors causes temperatures to be high in the Caribbean?

(A) Rainfall
(B) Altitude
(C) Latitude
(D) Wind direction

41. Which of the following industries is classified as tertiary?

(A) Fishing
(B) Tourism
(C) Oil refining
(D) Food processing

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42. Which of the following situations have resulted from the setting up of secondary industries in the Caribbean?

I. Increased external markets
II. Reduction in the cost of living
III. Increased employment opportunities

(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 measures do governments use to influence the location of industries?

(A) Providing tax incentives to industries
(B) Offering training programmes to employees
(C) Establishing green zones for industrial development
(D) Requiring industrial development certificates

44. A coral reef which is separated from the mainland by a wide lagoon is known as

(A) an atoll
(B) a patch reef
(C) a barrier reef
(D) a fringing reef

45. Which of the following conditions are needed for the growth of coral?

(A) Cloudy (turbid) water
(B) Warm water temperatures
(C) Fresh (low salinity) water
(D) Very gentle wave action

46. Which of the following plates is/are being pushed under the margin of the Caribbean plate?

I. Cocos
II. Nazca
III. South American

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

47. At a transform plate margin, crustal plates are

(A) being pulled apart
(B) sliding past each other
(C) colliding with each other
(D) being reabsorbed into the mantle

48. With what type of plate margin are the volcanoes of the Caribbean associated?

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

49. Which of the following features is characteristic of volcanoes in the Eastern Caribbean?

(A) Fluid lava
(B) Explosive eruption
(C) Minimal dispersion of ash
(D) Low toxic gas emission

50. The cultivation of crops that uses extensive practices and has high yields per worker is called

(A) mixed farming
(B) market gardening
(C) subsistence farming
(D) commercial arable farming

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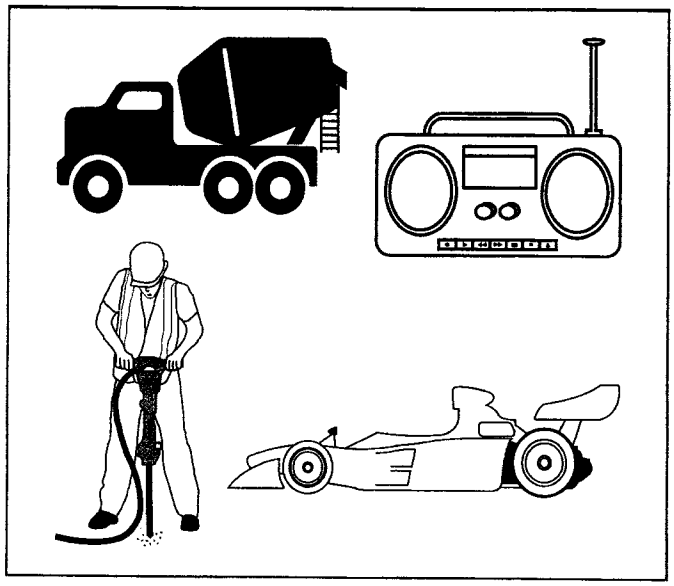
51. The type of soil related to the equatorial climate is called

(A) alluvium
(B) latasol
(C) chernozem
(D) terra rosa

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

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

Item **53** refers to the following diagram which shows various items that Mr Jack uses.



53. What type of pollution is common to activities involving the items illustrated in the diagram?

(A) Air
(B) Noise
(C) Land
(D) Industrial

54. 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

55. Which of the following situations contributes MOST to 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

56. Which of the following events poses the MOST serious threat to the rivers of the Caribbean?

(A) Tourist activities
(B) Mixed cropping
(C) Deforestation and erosion
(D) Improper fishing in them

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57. Which of the following substances is NOT expected to pollute the underground water supply?

(A) Mulch
(B) Gasoline
(C) Pesticides
(D) Fertilizers

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

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

59. Which of the following sequences USUALLY occurs where soil erosion is a problem?

(A) Increased runoff → decreased infiltration → deforestation → soil erosion
(B) Deforestation → decreased infiltration → increased runoff → soil erosion
(C) Deforestation → increased infiltration → increased runoff → soil erosion
(D) Increased runoff → deforestation → decreased infiltration → soil erosion

60. Which combination of factors would MOST likely result in flooding?

I. Soil conservation methods in use
II. Deforestation
III. Dumping of garbage in rivers

(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.