CANDIDATE – PLEASE NOTE!

You must sign below and return this booklet with the Answer Sheet. Failure to do so may result in disqualification.

Signature

2002

TEST CODE 000251

FORM TP 9989

CARIBBEAN EXAMINATIONS COUNCIL

SECONDARY EDUCATION CERTIFICATE EXAMINATION

GEOGRAPHY

Paper 01 - General Proficiency

75 minutes

READ THE FOLLOWING DIRECTIONS CAREFULLY

1. You should have an answer sheet inside this test booklet.

2. 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.

3. On your answer sheet find the number which corresponds to your item and mark the letter which corresponds to 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 best answer to this item is "July - September", so you should blacken answer space (C).

4. If you want to change your answer, be sure to erase your old answer completely and fill in your new choice.

5. 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, omit it and go on to the next one. You can come back to the harder item later. Your score will be the total number of correct answers.

6. This test consists of 60 items. You will have 75 minutes to answer them.

AFFIX SEAL HERE

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

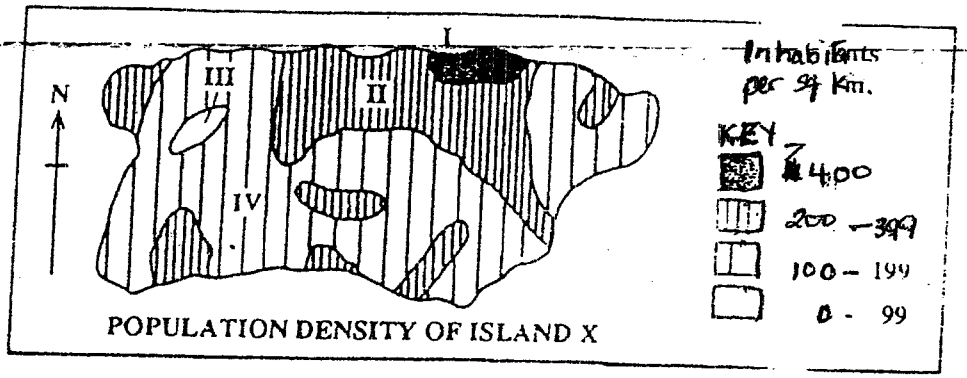
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1. Which of the following is the single most important factor in modifying the climate of the Caribbean islands?
   (a) ~~latitudinal positions~~
   (b) Winds & oceanic influences
   (c) Altitude
   (d) The amount of cloud cover.

2. Which of the following is TRUE of both Cool Temperate Interior climate and Tropical Continental Climate?
   (a) They both have low temperatures in winter.
   (b) They both experience prolonged dry spells.
   (c) They have high temperatures and effective precipitation during the summer months.
   (d) They both have same rainfall throughout the year.

3. Which of the following combinations would most likely result in orographic rainfall?
   (a) Moisture laden winds & lowlands
   (b) Mountainous regions and off shore winds
   (c) Onshore winds & mountainous regions
   (d) Daytime heating and strong onshore winds

Items 4 - 5 refer to the following density map of island X.



4. Which of the following regions has the highest population density?

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

5. Which of the following statements is true according to the population density map of Island X?

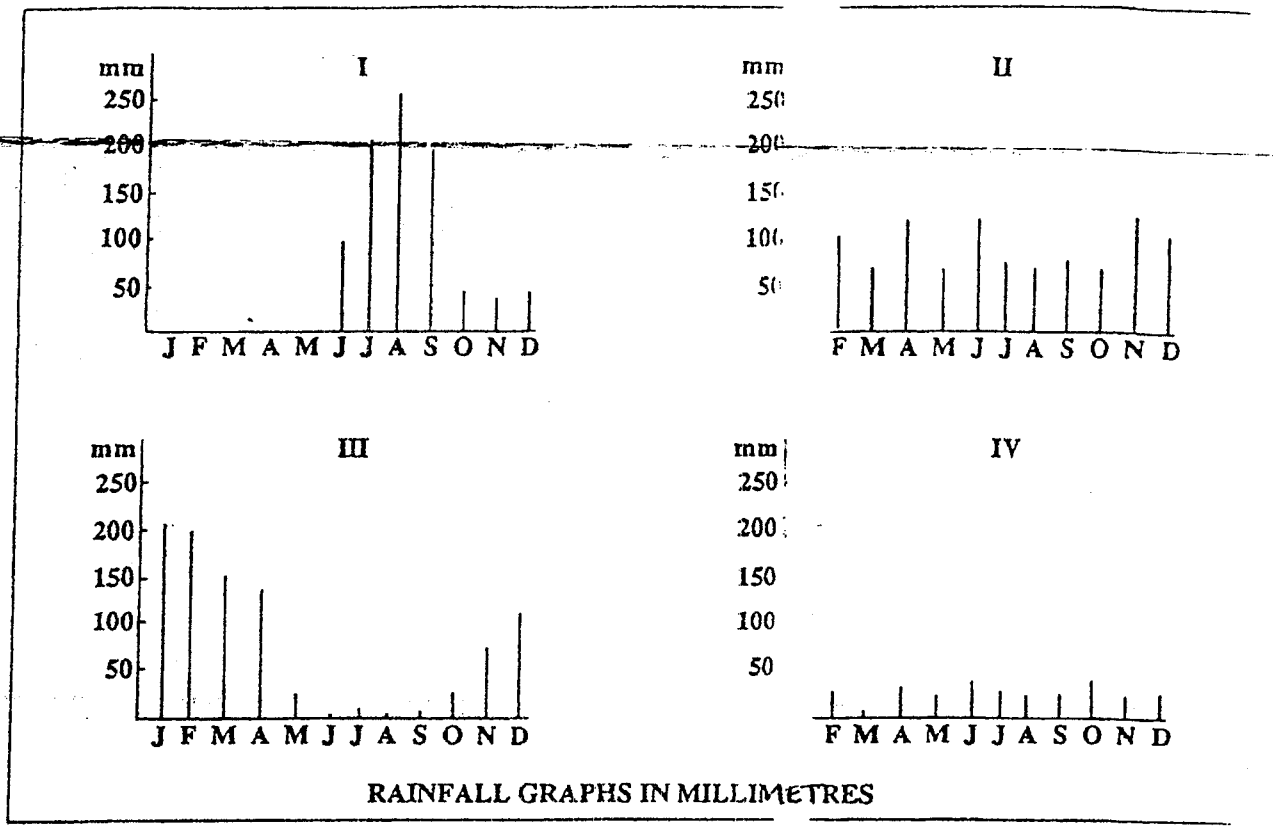
(A) The population is evenly distributed.
(B) The population density decreases outward from Region I.
(C) Region I has a smaller population than all the other regions combined.
(D) The highest densities are in the south.

6. Which of the following instruments are not in a Stevenson Screen?

I. Maximum and minimum thermometer
II. Mercury barometer
III. Rain gauge
IV. Wet and dry bulb thermometer

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

Items 7 - 8 refer to the following graphs.



RAINFALL GRAPHS IN MILLIMETRES

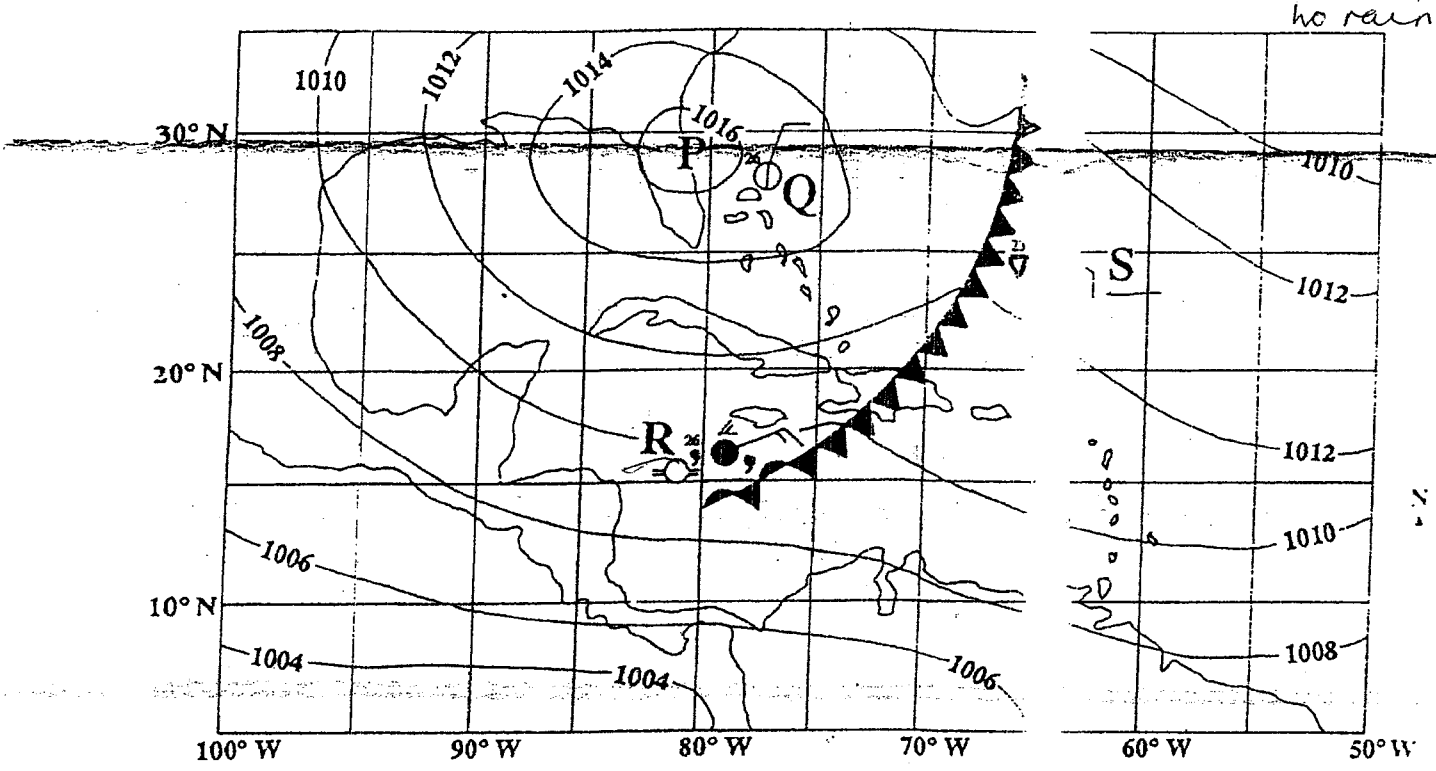
7. Which of the above rainfall graphs represents conditions found in areas in the Northern Hemisphere with a Tropical Continental (Sudan) climate?

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

8. Under which of the conditions above would a river discharge vary MOST from season to season?

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

Items 9 - 11 refer to the following weather map.



9. The weather system located between stations R and S in the map above is BEST described as

(A) a hurricane
(B) a cold front
(C) a warm front
(D) an anticyclone

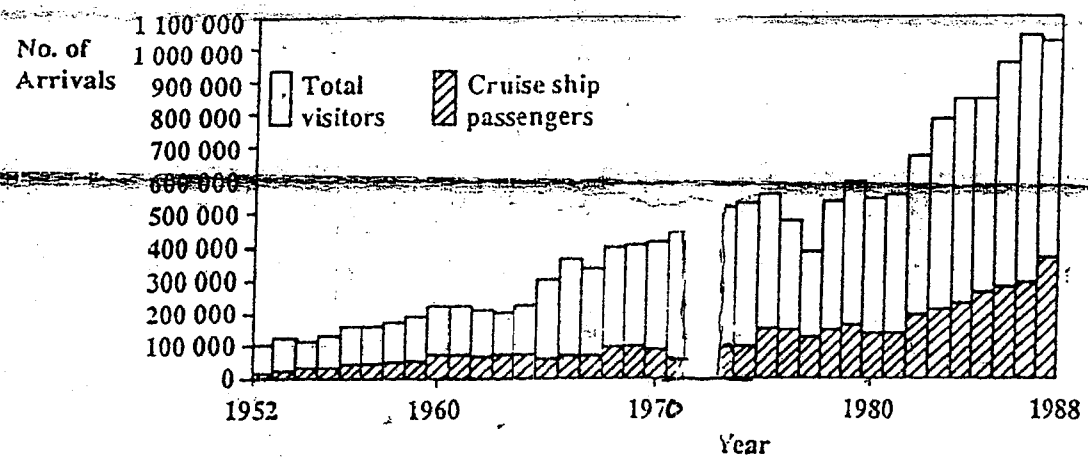
10. According to the weather map above, the lowest atmospheric pressure is being experienced at

(A) P
(B) Q
(C) R
(D) S

11. From which direction is the weather system in the map above moving?

(A) West
(B) North-west
(C) East
(D) South-east

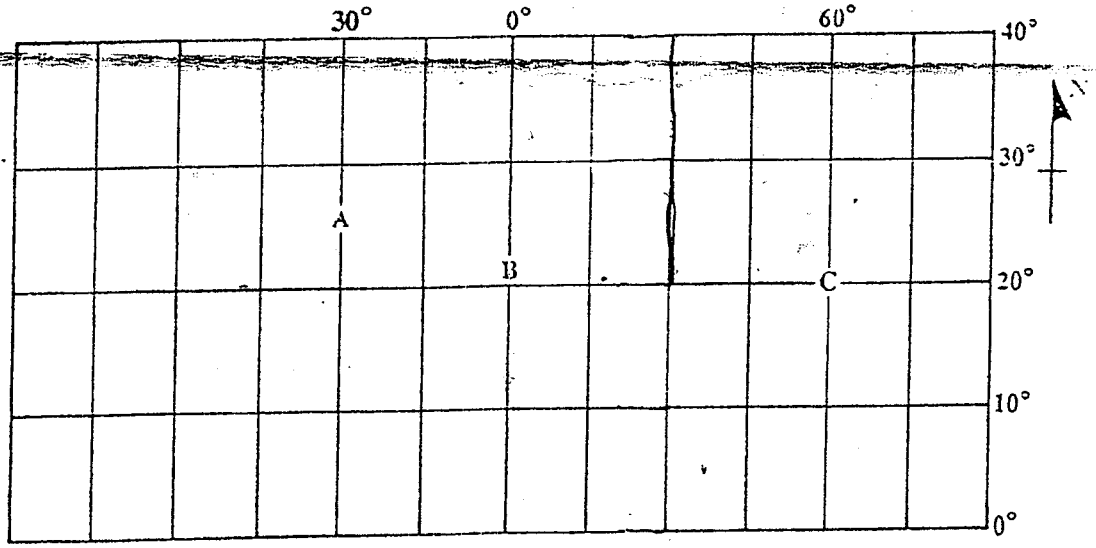
Item 12 is based on the following graph which shows tourist arrivals for a certain Caribbean country



12. The graph above shows that cruise ship passengers

(A) increased steadily from 1980 to 1988
(B) have never fallen below 100 000 in any single year
(C) will soon make up the majority of arrivals to the country
(D) make up more than half the total number of arrivals

Items 13 - 14 are based on the diagram below, which shows the longitude and latitude of points A, B and C.



13. The time at point A is 10 a.m. and the time at point B is 12 noon. What is the longitude of point A?

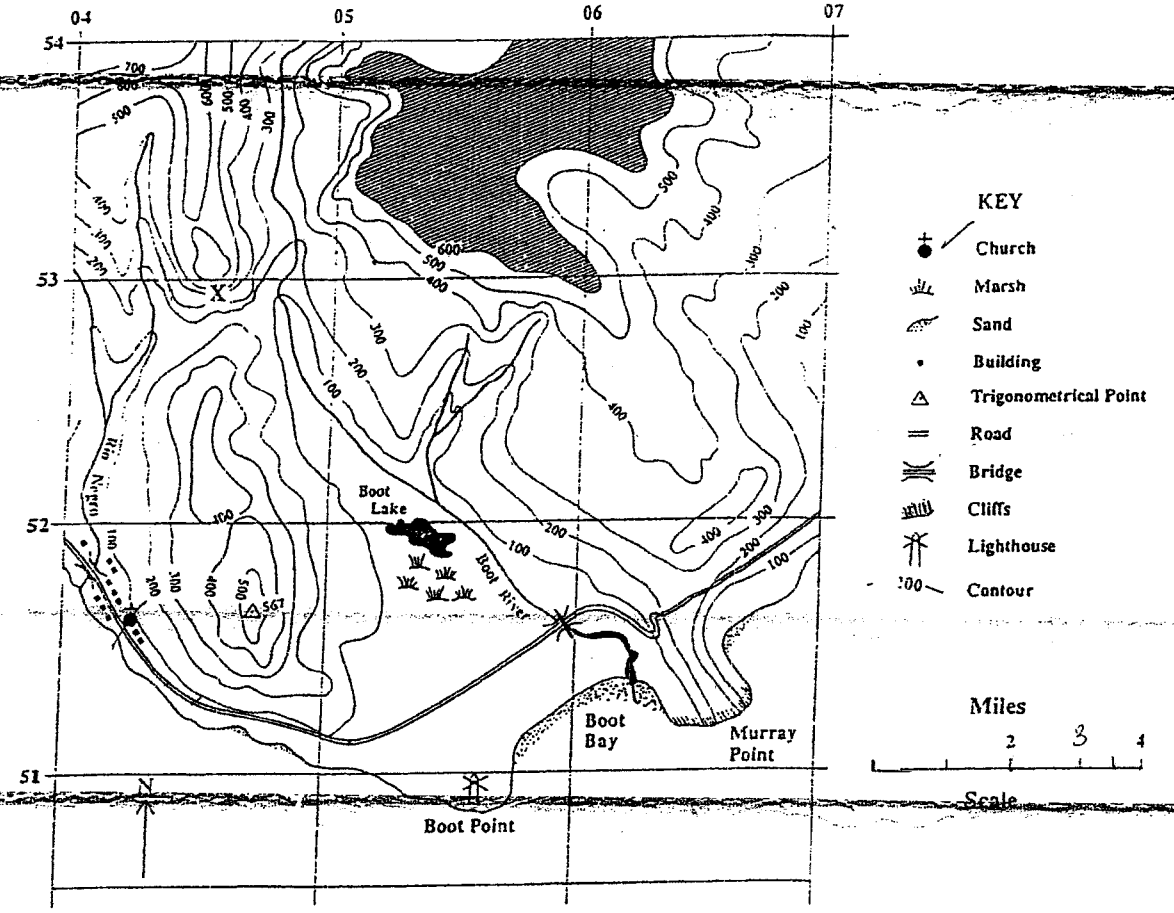
(A) 30°E
(B) 30°W
(C) 15°W
(D) 15°E

14. The time at point B on 0° longitude is 1 p.m. What is the time at point C?

(A) 4 a.m.
(B) 5 a.m.
(C) 4 p.m.
(D) 5 p.m.

GO ON TO THE NEXT PAGE

Items 15 - 17 refer to the following map.



15. The distance by road from the bridge over Boot River to the church in the village is approximately

(A) 4 miles
(B) 6 miles
(C) 8 miles
(D) 10 miles

16. The area shaded on the map represents a

(A) volcano
(B) plateau
(C) plain
(D) valley

17. The land at Murray Point ends in a

(A) cliff
(B) beach
(C) harbour
(D) marsh

GO ON TO THE NEXT PAGE

18. Which of the following aspects of wind is measured by a wind vane?

(A) Direction
(B) Height
(C) Speed
(D) Force

Items 19 - 20 refer to the following information on the weather of a particular day.

THERMOMETERS (°C)							PRESSURE	WIND		CLOUD		RAINFALL
					Soil							
Date	Max.	Min.	Wet	Dry	Max.	Min.	mbs	Speed	Direction	Type	Amount	Amount
15.2.94	24	21	23	23	24	20	998	33 kph	SE	Cumulus	$\frac{7}{8}$	38 mm

19. The information above suggests that the day on which the record was taken was MOST likely

(A) dry, windy and generally fine
(B) rainy, windy and generally stormy
(C) generally fine, with occasional showers
(D) occasionally sunny, with intermittent showers and high winds

0.2T - rainy.
1mm - wet.

20. Which of the sets of thermometer readings could be used to calculate relative humidity?

(A) Max. 24°C; Min 21°C
(B) Max. 24°C; Dry 23°C
(C) Wet 23°C; Min. 21°C
(D) Wet 23°C; Dry 23°C

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21. Which of the following properties is observed when a moistened sample of soil is rubbed between the fingers?

(A) Soil texture
(B) Soil structure
(C) Soil colour
(D) Soil organisms

22. The sudden movement of a large mass of soil and rock down a slope, particularly after heavy rain is known as

(A) soil creep
(B) mudflow
(C) flash flood
(D) landslide

23. For which of the following purposes are rivers in the Caribbean region used?

I. Transportation
II. Irrigation
III. Recreation
IV. Electricity generation only Guyana.

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

24. Which of the following is NOT a characteristic of acid lava?

(A) A low melting point
(B) A high percentage of silica
(C) A loud explosion during eruption
(D) The formation of steep-sided cones

25. Which of the following statements is NOT true of all volcanoes?

(A) They occur in areas of crustal weakness.
(B) Their eruptions are violent.
(C) Their cones are made of ejected material.
(D) Various gases are emitted during eruption.

26. A rift valley may be formed when

(A) land between parallel lines of weakness subsides
(B) surrounding areas of land mass sink
(C) rocks are tilted and uplifted
(D) land between two faults is uplifted

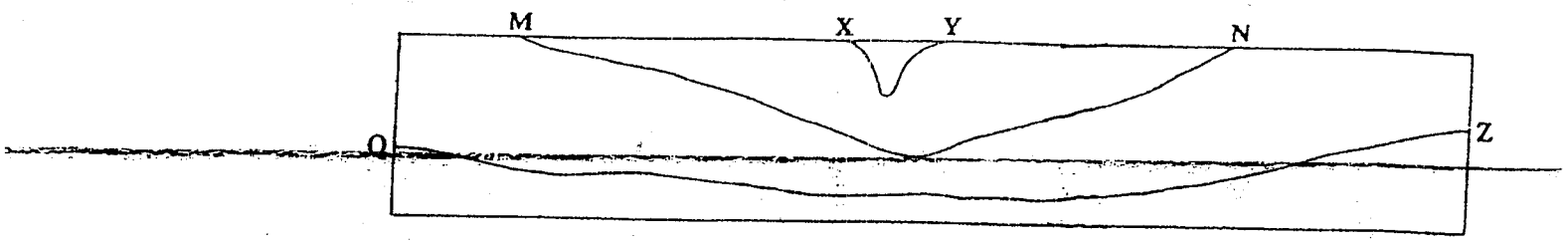
27. Which of the following may be secondary effects of earthquakes?

(A) Floods, fires, collapsing buildings
(B) Ruptured dams, heavy rainfall, landslides
(C) Heatwave, tsunamis, rockfalls
(D) Ruptured dams, avalanches, high humidity

28. Rock material, swirled about in a river's channel by turbulent water, may produce

(A) waterfalls
(B) braiding
(C) pot-holes
(D) distributaries

Item 29 refers to the following diagram which illustrates cross-sections typical of river valleys.



29. Which one of the following feature is NOT related to the valley stage marked X – Y?

(A) Rapids and waterfalls
(B) Interlocking spurs
(C) Undercut slopes
(D) Flood plains

30. The method of soil conservation in which level, step-like areas are cut into hillsides is called

(A) contour ploughing
(B) terracing
(C) strip cropping
(D) crop rotation

31. Which of the following statements is true of anti-cyclones north of the Caribbean?

(A) The air moves in a haphazard manner.
(B) They usually bring thick clouds and heavy rainfall.
(C) They often form over continents.
(D) The air moves in a clockwise direction.

32. The MOST important factor explaining the difference between weather and climate is

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

33. Which of the following is NOT associated with convectional rainfall?

(A) A stable airmass
(B) A hot land surface
(C) Heavy rain and lightning
(D) Formation of cumulus cloud

34. Recent hurricanes in the Caribbean have caused fewer deaths because

(A) the majority of the population goes to storm shelters
(B) many have occurred during the day
(C) families no longer live in unsafe areas
(D) there have been improved forecasts of hurricane tracks

35. Which of the following precautions should be taken to help reduce the effects of a hurricane?

I. Evacuate low-lying areas.
II. Stock up on batteries.
III. Stock up on fresh meat.
IV. Store water in containers.

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

Item 36 refers to the following table

	J	F	M	A	M	J	J	A	S	O	N	D	
Temp °C	-27	-28	-26	-18	-7	2	4	4	1	-8	-17	-23	Range 32°C
°F	-16	-18	-15	0	19	35	39	39	34	18	1	-9	57°F
Precipitation mm	5	2	2	2	2	8	23	20	13	13	8	5	Total 103 mm
ins	0.2	0.1	0.1	0.1	0.1	0.3	0.9	0.8	0.5	0.5	0.3	0.2	4.1 ins

36. The type of precipitation occurring during the months of December to March is MOST likely to be

(A) hail
(B) snow
(C) sleet
(D) rain

37. Which of the following has the LEAST effect on the texture of soils?

(A) The amount of clay particles
(B) The chemical composition of the soil
(C) The size of grains which make up the soil
(D) The type of parent material

38. Which of the following BEST defines the term 'leaching'?

(A) The horizon in which minerals are deposited
(B) The process by which minerals are washed downwards
(C) The horizon from which minerals are washed downwards
(D) The process by which water moves upward

GO ON TO THE NEXT PAGE

39. A volcanic plug is a feature associated with

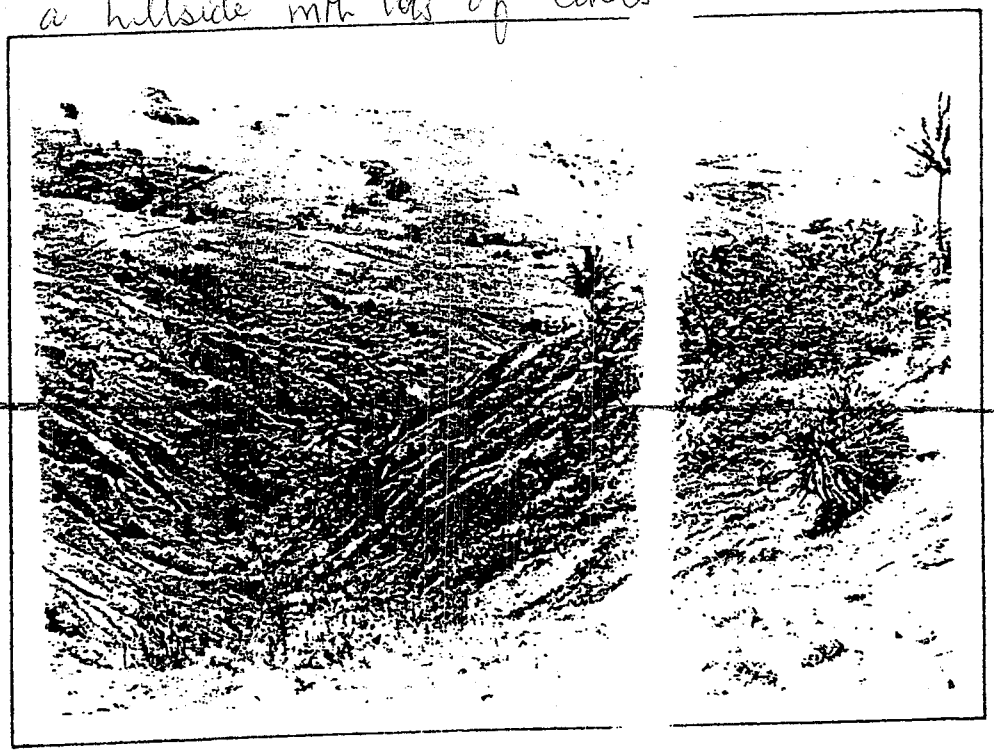
(A) crater lakes
(B) fissure eruptions
(C) lava plateaux
(D) viscous lava

40. The upward movement of liquids in soil is known as

(A) capillarity
(B) suspension
(C) illuviation
(D) leaching

Items 41 - 42 refer to the photograph below.

a hillside with lots of lines



41. Which of the following is responsible for the type of landscape shown in the photograph?

(A) Contour ploughing
(B) Gully erosion
(C) Terracing
(D) Sheet erosion

42. Which of the following is LEAST likely to have produced the type of landscape shown in the photograph?

(A) Deforestation
(B) Slash and burn
(C) Contour ploughing
(D) Overgrazing

43. Which of the following is the MAIN reason why flour mills in the Caribbean are situated on coastal locations?

(A) Nearness to facilities for unloading raw materials
(B) Nearness to the waste disposal facilities
(C) Availability of cheap power supply
(D) Availability of cheap labour

44. "The average size of farm plots in mountainous areas of the Caribbean is less than 5 acres".

In which of the following types of farming system are farmers therefore MOST LIKELY to be classed?

(A) Commercial livestock
(B) Plantation agriculture
(C) Peasant agriculture
(D) Commercial agriculture

45. The maintenance of the organic content in soils under agriculture can be ensured MAINLY by the

(A) rotation of crops
(B) application of manures
(C) use of fertilizers
(D) burning of vegetation

46. The MAIN reason why sugar cane harvesting ends with the start of the rainy season is because

(A) there are no more ripe canes to be cut
(B) the machines in the factory need to be rested
(C) the soft ground makes transport difficult
(D) insects in the canefield make further cutting difficult

47. Which of the following are characteristics of MOST peasant farms in the Caribbean?

I. Small holdings
II. Large holdings
III. Family labour
IV. Local market

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

48. Which of the following farming problems is common to Northern Nigeria, the Canadian Prairies and the U.S. Mid-west region?

(A) Small farm sizes
(B) Excessive rainfall
(C) Poor transportation
(D) Wind erosion

49. Which of the following groups consists ENTIRELY of non-renewable resources?

(A) Land, water, forests
(B) Wind, marine life, uranium
(C) Oil, coal, natural gas
(D) Oil, water, wind

50. Which of the following BEST explains why the most common manufacturing industry in the Caribbean is food processing?

(A) It is cheaper to produce than to import foods.
(B) Agricultural raw materials are readily available.
(C) Most countries have no mineral resources.
(D) It does not require the use of imported fuel.

51. Which of the following statements does NOT apply to the forests of the Caribbean region?

(A) The trees prevent soil erosion.
(B) The wooded areas help to conserve the water supply.
(C) The forests are major suppliers of pulp to the paper industries
(D) The forests provide a valuable source of timber.

52. Which of the following is a form of air pollution?

(A) Mercury poisoning
(B) Oil spill
(C) Raw sewage
(D) Smog

53. From which of the following continental areas do MOST of the tourists to the Caribbean come?

(A) Asia
(B) Europe
(C) Central America
(D) North America

54. Which of the following factors is MOST likely to result in urban growth in the Caribbean?

(A) Urban to rural migration
(B) Rural to urban migration
(C) High death rate and low birth rate
(D) Low death rate and high birth rate

55. Which of the following factors have influenced the location of port cities in the Caribbean?

I. Low land
II. A good harbour
III. Accessibility to the interior
IV. The prevailing winds

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

56. Which of the following is typical of plantation agriculture in the Caribbean?

(A) Diversification of crops is widely practised.
(B) One major crop is grown, mainly for export.
(C) Farms are small, employing mainly family members.
(D) Farms are usually found in hilly, forested areas.

57. Rapid urbanization in Caribbean countries USUALLY results in

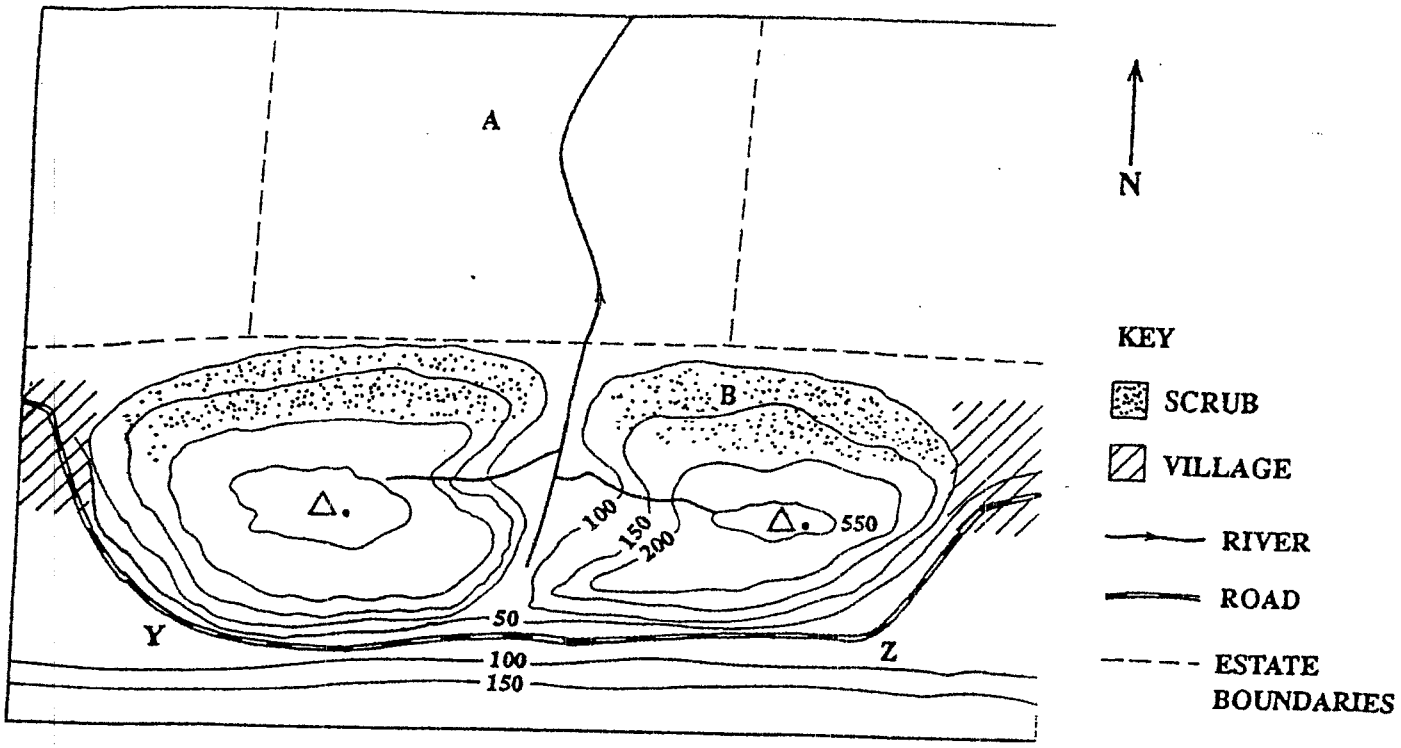
(A) increased employment in the cities
(B) decreased foreign exchange earnings
(C) improvement in the standard of living
(D) housing shortages in the cities

58. Trade between Caribbean countries has been encouraged MAINLY by

(A) agreements among regional governments
(B) closeness of Caribbean territories
(C) similarity of Caribbean products
(D) excellent ocean transport

GO ON TO THE NEXT PAGE

Items 59 - 60 are based on the following map.



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

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

60. The type of farming system MOST likely to develop at A is

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

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