CANDIDATE – PLEASE NOTE!

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

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TEST CODE **01225010**

FORM TP 2021077

MAY/JUNE 2021

CARIBBEAN EXAMINATIONS COUNCIL

CARIBBEAN SECONDARY EDUCATION CERTIFICATE® EXAMINATION

GEOGRAPHY

Paper 01 – General Proficiency

1 hour 15 minutes

03 JUNE 2021 (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) 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.

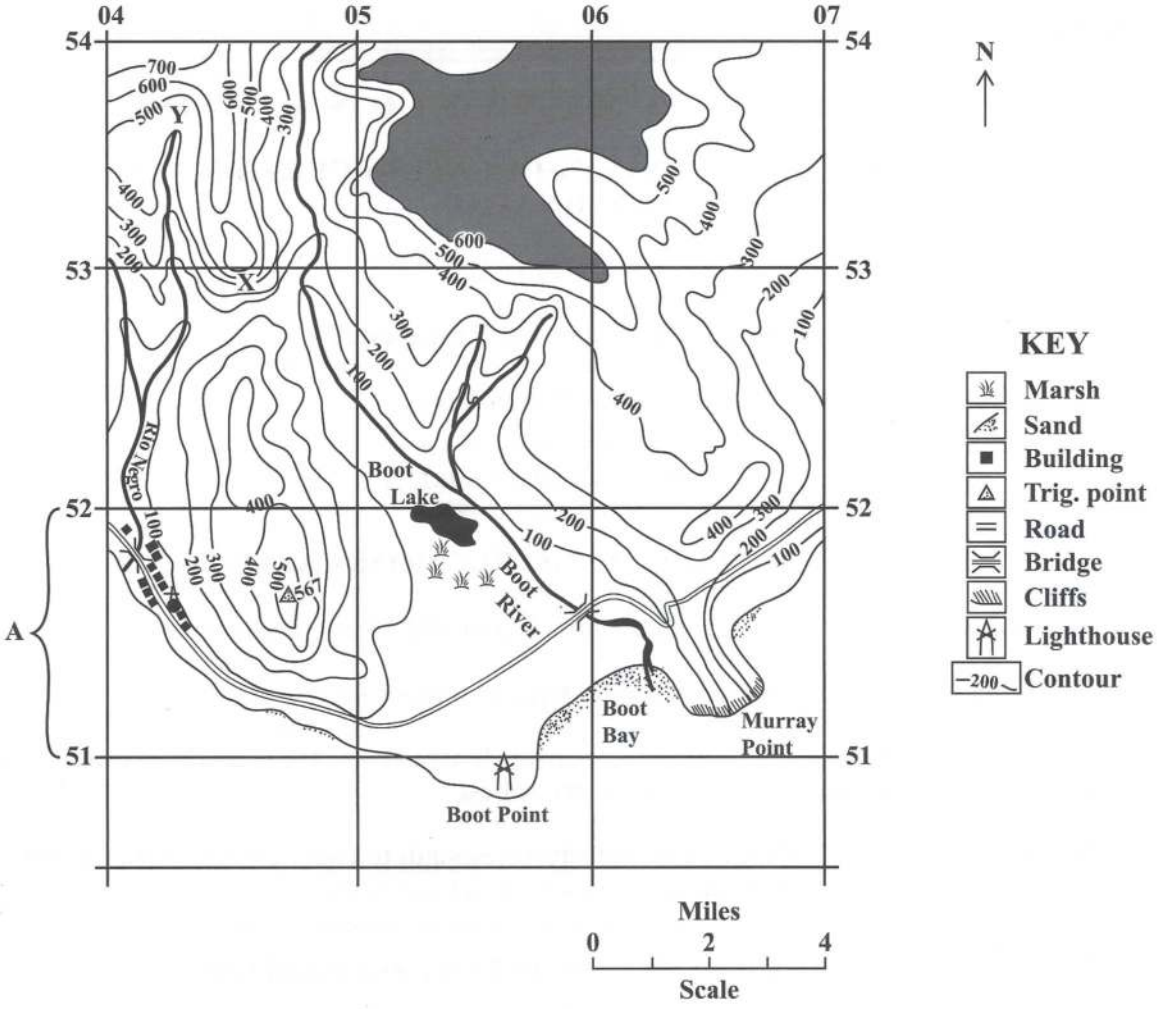
8. The use of geometrical instruments is permitted.

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

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Items **1–3** refer to the following map of a section of an island in the Caribbean region.



1. What is the contour interval used on the map?

(A) 50 ft
(B) 100 ft
(C) 200 ft
(D) 300 ft

2. In which of the following directions does Boot River flow?

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

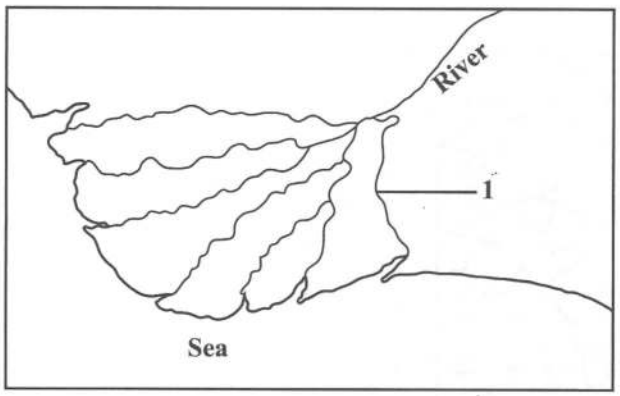
3. What settlement pattern is shown in the grid square labelled **A**?

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

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Item 4 refers to the following diagram.



4. In the diagram above, the feature labelled **1** is a

(A) mouth
(B) tributary
(C) confluence
(D) distributary

Items 5–8 refer to the following table which shows the average monthly rainfall and temperature 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

5. What is the average annual temperature at this location?

(A) 25.2 °C
(B) 26.2 °C
(C) 27.2 °C
(D) 28.2 °C

6. The rainfall pattern indicates

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

7. The annual temperature range for this location is

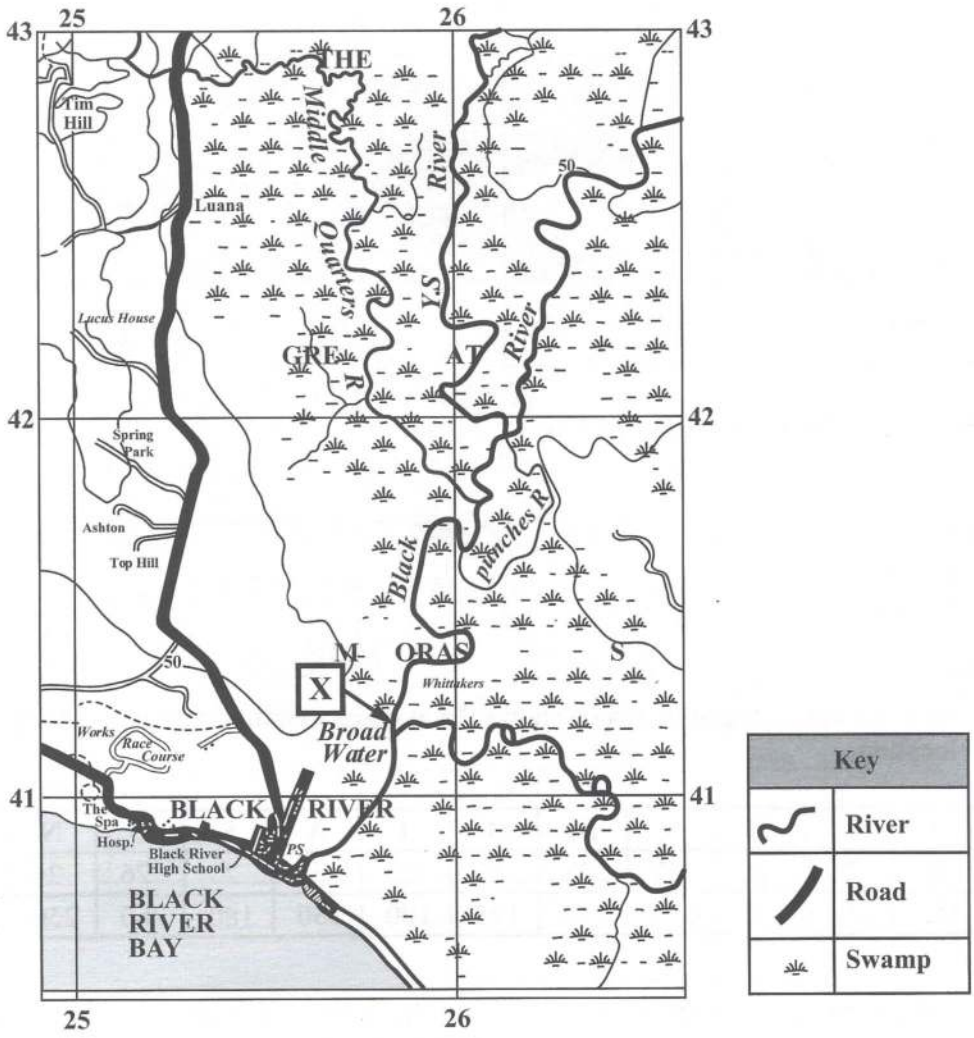
(A) 2 °C
(B) 3 °C
(C) 25 °C
(D) 27 °C

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

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

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Items **9–10** refer to the following map of a section of an island in the Caribbean region.



9. The feature labelled **X** at (257412) is a

(A) confluence
(B) distributary
(C) river capture
(D) deferred junction

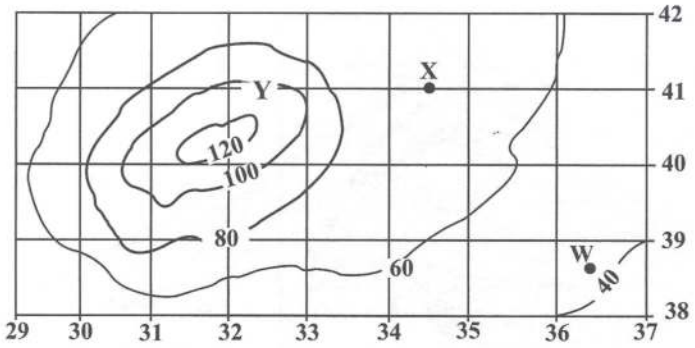
10. The general direction of flow of the Black River is

(A) SE
(B) NE
(C) NNE
(D) SSW

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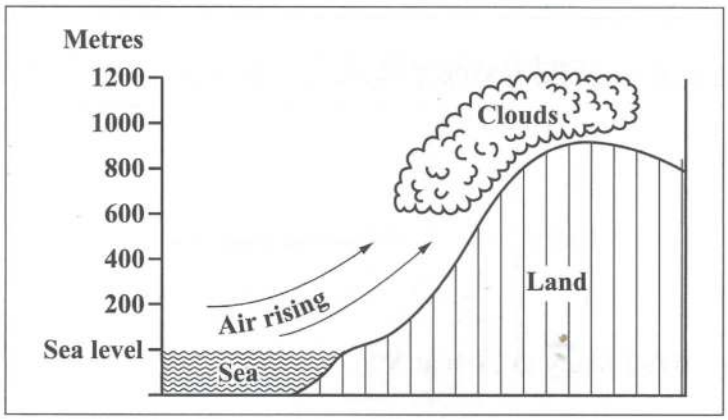
Item 11 refers to the following contour sketch map (contours in metres) showing Points **X** and **W** and Area **Y**.



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

(A) 045°
(B) 135°
(C) 225°
(D) 315°

Item 12 refers to the following diagram which shows air rising and clouds forming over a highland.

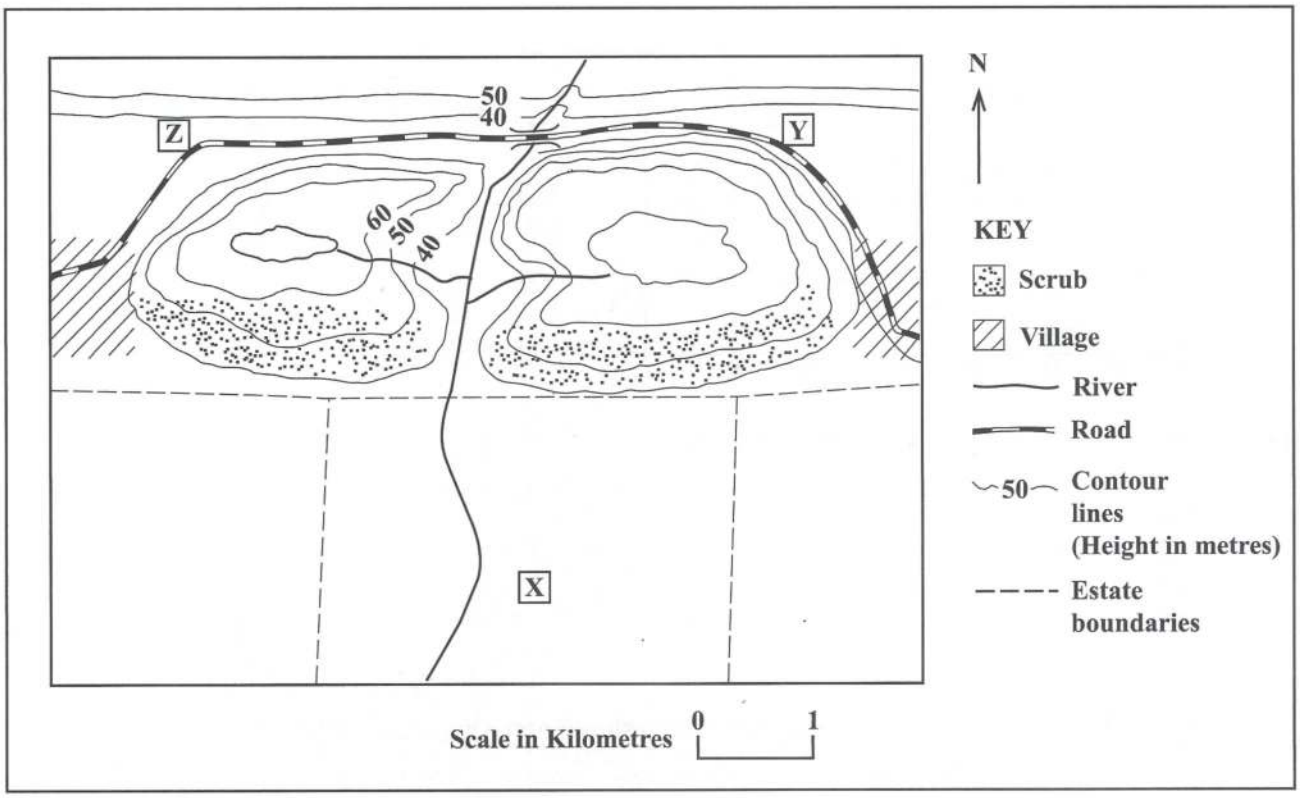


12. At what height, in metres, above sea level does condensation begin?

(A) 200
(B) 400
(C) 600
(D) 1200

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Items **13–14** refer to the following sketch map of an area.



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

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

14. What type of farming system is MOST likely to exist at **X**?

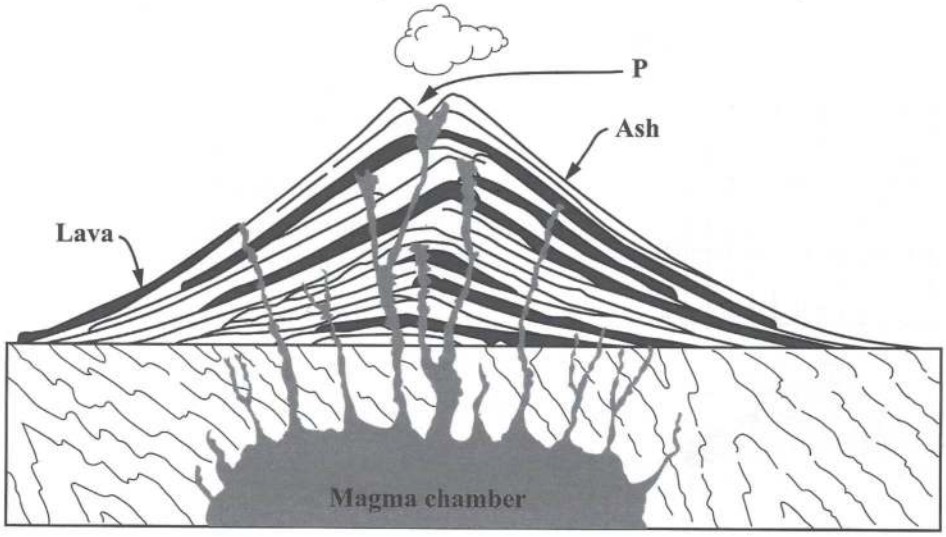
(A) Poultry rearing
(B) Shifting cultivation
(C) Subsistence farming
(D) Commercial arable farming

15. Which of the following climate types is affected by the trade winds all year round, experiences a wet and dry season, and has an annual rainfall between 1200 and 2000 mm?

(A) Equatorial
(B) Dry equatorial
(C) Tropical marine
(D) Humid tropical marine

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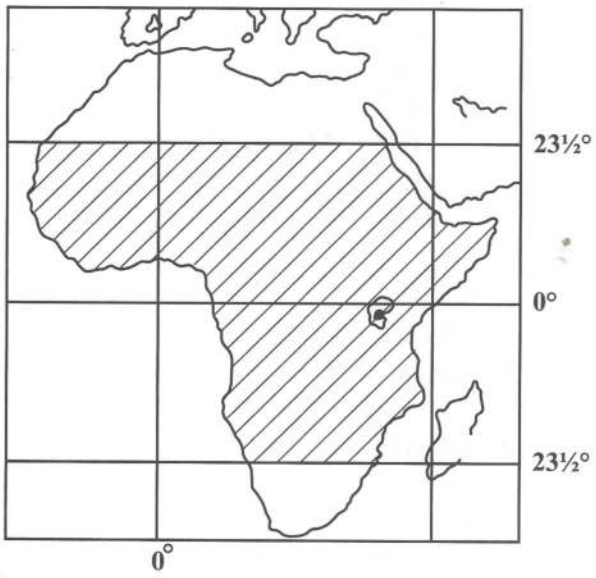
Item **16** refers to the following idealized cross section of a composite volcanic cone.



16. What is the name of the volcanic feature labelled **P**?

(A) Cone
(B) Crater
(C) Fissure
(D) Caldera

Item **17** refers to the following map of a continent.

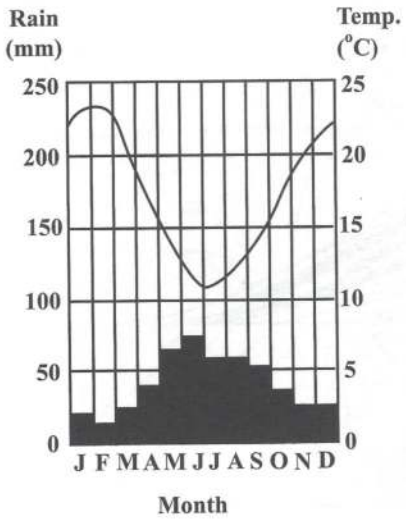


17. The shaded area on the map above is BEST described as the

(A) Tropics
(B) Arctic Zone
(C) Mediterranean
(D) Temperature Zone

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Items **18–21** refer to the following rainfall and temperature graph of a country.



18. 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.

19. The annual range of temperature is approximately

(A) 5°
(B) 12°
(C) 15°
(D) 24°

20. Which month had the highest temperature?

(A) February
(B) June
(C) November
(D) December

21. The rainy season is MOST likely to occur during the months of

(A) January–May
(B) May–September
(C) November–March
(D) August–December

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22. 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 the angular distance north and south of the equator.

23. Which of the following can be defined as "a sheet of solidified magma along a bedding plane"?

(A) Sill
(B) Plug
(C) Dyke
(D) Batholith

24. Weather refers to data on daily observations of the elements but climate refers to the observations

(A) for one week
(B) over one month
(C) over several decades
(D) of one element each day

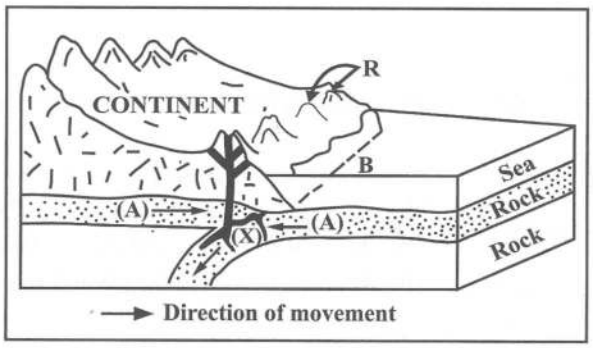
25. Which of the following gives the order of the processes in the hydrological cycle?

(A) Condensation, precipitation, evapotranspiration, runoff
(B) Condensation, evapotranspiration, precipitation, runoff
(C) Evapotranspiration, condensation, precipitation, runoff
(D) Evapotranspiration, precipitation, condensation, runoff

26. A river that is wide, shallow and has bars and islands around which the river flows is described as

(A) flooded
(B) braided
(C) turbulent
(D) meandering

Items **27–28** refer to the following diagram showing the movement of plate margins.



27. Which of the following plate margins is shown?

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

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

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

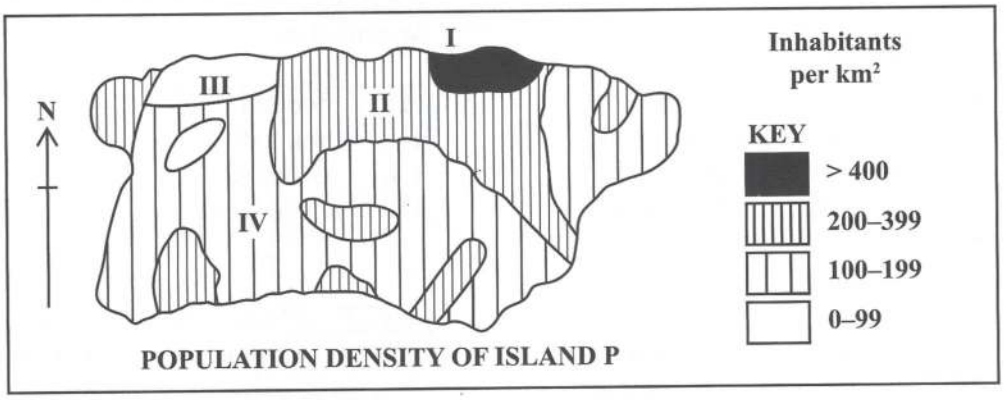
29. Which of the following factors would be MOST effective in slowing down the rate of population growth in the Caribbean?

(A) Low death rate
(B) Low emigration rate
(C) High life expectancy
(D) Low total fertility rate

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Items **30–31** refer to the following population density map of Island **P**.



30. Which of the following statements is generally true of the population of Island **P**?

(A) It is evenly distributed.
(B) The area of highest density is in the south.
(C) The density decreases outward from Area I.
(D) The density increases outward from Area I.

31. Which of the following areas has the SMALLEST population?

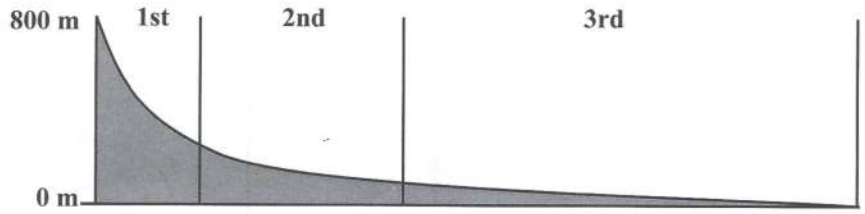
(A) I
(B) II
(C) III
(D) IV

32. Which climatic factor best accounts for the differences between equatorial and tropical marine climates?

(A) Altitude
(B) Latitude
(C) Continentality
(D) Ocean currents

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Item **33** refers to the following profile of a river.



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

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

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34. Which of the following constituents of the soil produces organic mineral matter?

(A) Humus
(B) Leaf litter
(C) Parent material
(D) Microorganism

35. To which sector of the economy do activities such as brewing and bottling, construction and shipbuilding belong?

(A) Service
(B) Primary
(C) Tertiary
(D) Secondary

36. Which of the following phrases defines exfoliation?

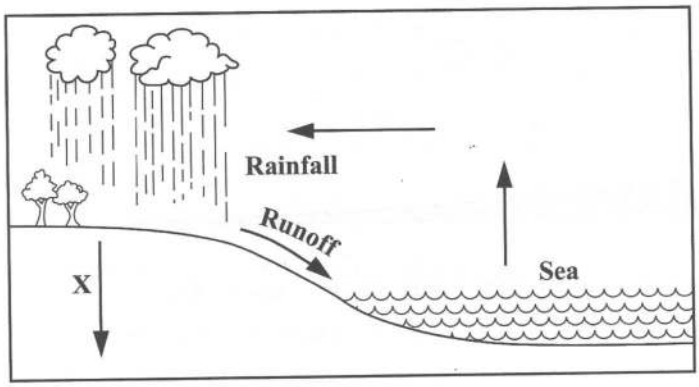
(A) Peeling off of the outer layers of rocks
(B) Splitting of rocks into rectangular blocks
(C) Movement of rocks due to the action of rivers
(D) Disintegration of rocks by root penetration into crevices

37. Which of the following could contribute to the degradation of the environment?

(A) Crop rotation
(B) Use of manures
(C) Use of chemical fertilizers
(D) Controlling pests biologically

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Item **38** refers to the following diagram of the hydrologic cycle.



38. In the diagram, **X** represents

(A) percolation
(B) evaporation
(C) transpiration
(D) precipitation

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39. Deposition by a river usually occurs when its

(A) volume increases
(B) gradient increases
(C) velocity decreases
(D) channel roughness decreases

40. The MAJOR effect of wave refraction along an irregular coastline is

(A) straightening of the coast
(B) eroding and deepening of bays
(C) removal of sand from the beach
(D) channelling of caves, arches and stacks

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

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

42. Fold mountains form where crustal plates move

(A) up and down
(B) towards each other
(C) parallel to each other
(D) away from each other

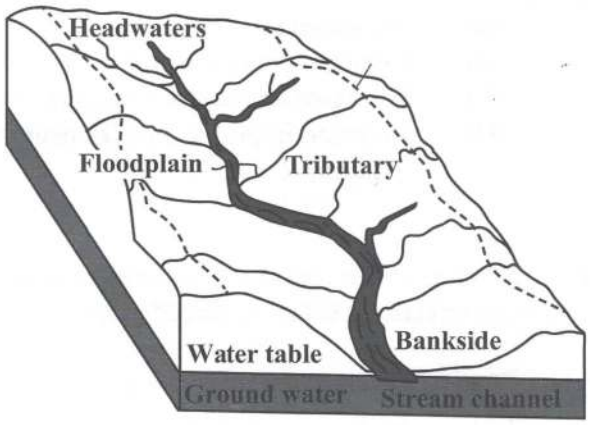
43. Which of the following factors is MAINLY responsible for high temperatures in the Caribbean?

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

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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. 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

49. 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

50. Which of the following practices may harm the marine environment in the Caribbean?

I. Harvesting of coral formations for souvenirs
II. Zoning of marine activities
III. Discharging sewage and industrial waste along the shore

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

51. When magma emerges on the surface it may lead to the formation of

(A) sills
(B) dykes
(C) laccoliths
(D) lava flows

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52. Which of the following benefits would MOST likely be gained by Caribbean countries which diversify their economies through industrialization?

(A) Protection from economic losses
(B) Greater purchasing power of population
(C) Less dependence on a single economic activity
(D) Increased trade with North and Latin American countries

53. Which of the following is a MAJOR environmental concern regarding industrial development in the Caribbean?

(A) Habitat loss
(B) Habitat fragmentation
(C) The contamination of water sources
(D) Air pollution from exhaust engines

54. A caldera will form when a

I. large eruption empties the magma chamber and the top of the volcano crumbles
II. gentle eruption of lava and steam causes a wide crater to form
III. violent eruption destroys the original crater of the volcano

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

55. 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) Increased employment opportunity
(D) Reduced importation of consumer goods

56. 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

57. Which of the following is a likely consequence of climate change in the Caribbean?

(A) Rise in sea level
(B) Increase biodiversity
(C) Growth in the tourism sector
(D) Better crop resistance to pests

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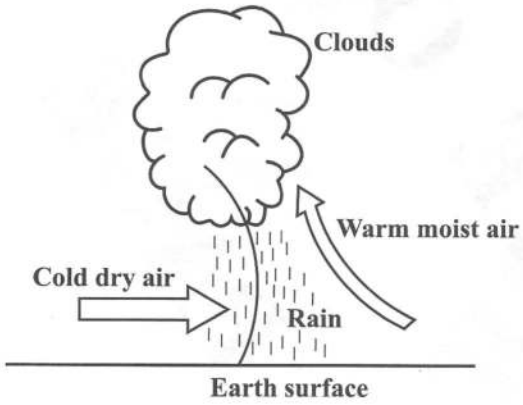
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58. Which of the following are characteristics of acidic volcanic lava?

I. Flows in thin sheets
II. Viscous lava that solidifies quickly
III. The formation of steep sided cones

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

Item **59** refers to the following diagram of a weather system.



59. What type of weather system is represented in the diagram?

(A) Cold front
(B) Anticyclone
(C) Warm front
(D) Tropical wave

60. Which of the following would a government MOST likely do to influence investors to locate a new factory in a rural area?

(A) Establish schools to educate the young children.
(B) Import all of the new technology for the factory.
(C) Pave the roads and provide a reliable water supply.
(D) Instruct the banks to provide low interest loans.

END OF TEST

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

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CANDIDATE'S RECEIPT

INSTRUCTIONS TO CANDIDATE:

1. **Fill in all the information requested clearly in capital letters.**

TEST CODE: | 0 | 1 | 2 | 2 | 5 | 0 | 1 | 0 |

SUBJECT: GEOGRAPHY – Paper 01

PROFICIENCY: GENERAL

REGISTRATION NUMBER: | | | | | | | | | | |

FULL NAME: _____

(BLOCK LETTERS)

Signature: _____

Date: _____

2. **Ensure that this slip is detached by the Supervisor or Invigilator and given to you when you hand in this booklet.**

3. **Keep it in a safe place until you have received your results.**

INSTRUCTION TO SUPERVISOR/INVIGILATOR:

Sign the declaration below, detach this slip and hand it to the candidate as his/her receipt for this booklet collected by you.

I hereby acknowledge receipt of the candidate's booklet for the examination stated above.

Signature: _____
Supervisor/Invigilator

Date: _____

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