



Geography 12

Resource Exam A

Exam Booklet

PART A: MULTIPLE CHOICE

Value: 53 marks

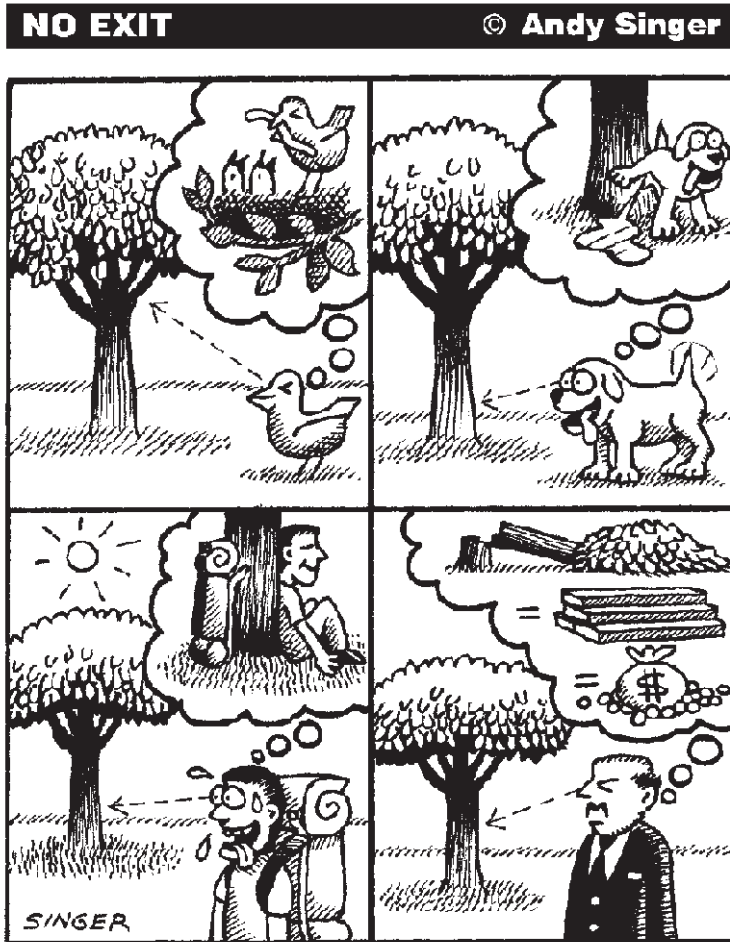
Suggested Time: 15 minutes

INSTRUCTIONS: For each question, select the **best** answer.

1. Which of the following is a renewable resource?
 - A. oil
 - B. gas
 - C. fish
 - D. coal

2. Which of the following is considered a sustainable agricultural practice?
 - A. monoculture
 - B. crop rotation
 - C. over irrigation
 - D. inorganic fertilizers

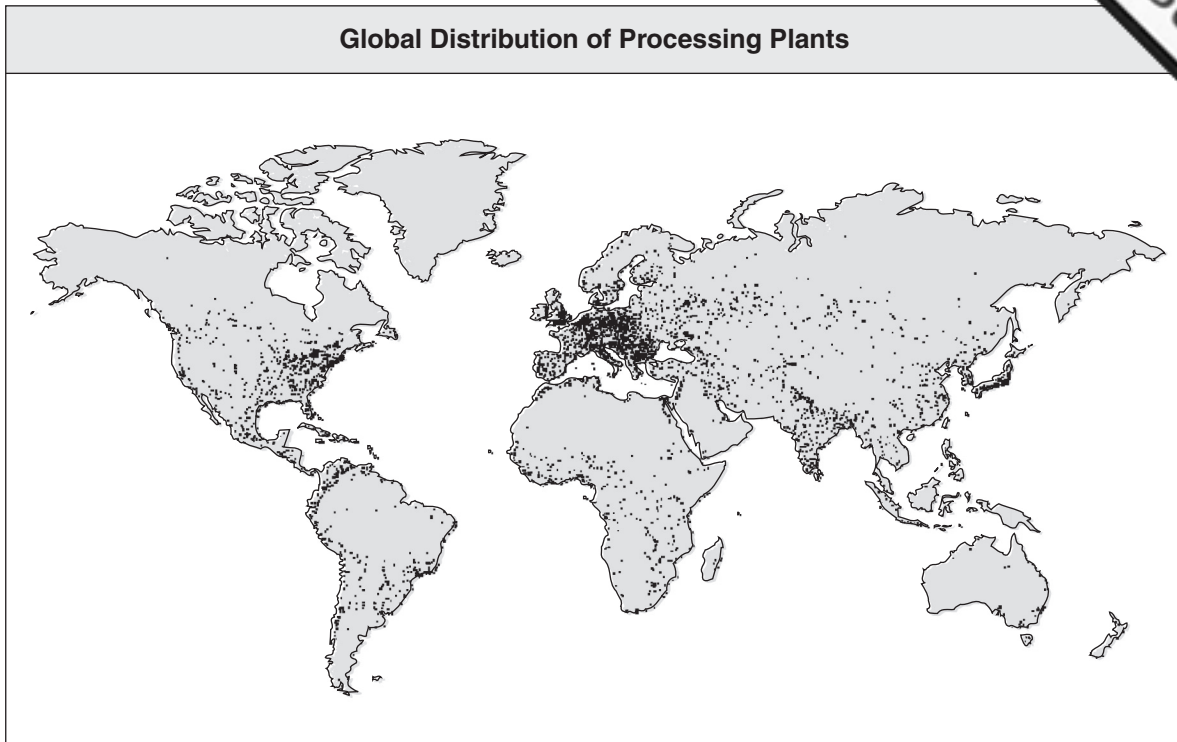
Use the following cartoon to answer question 3.



3. Which two different resource ethics are represented by the cartoon?

- A. exploitation and scientific
- B. economic and preservation
- C. preservation and sustainability
- D. conservation and human interaction

Use the following map to answer question 4.

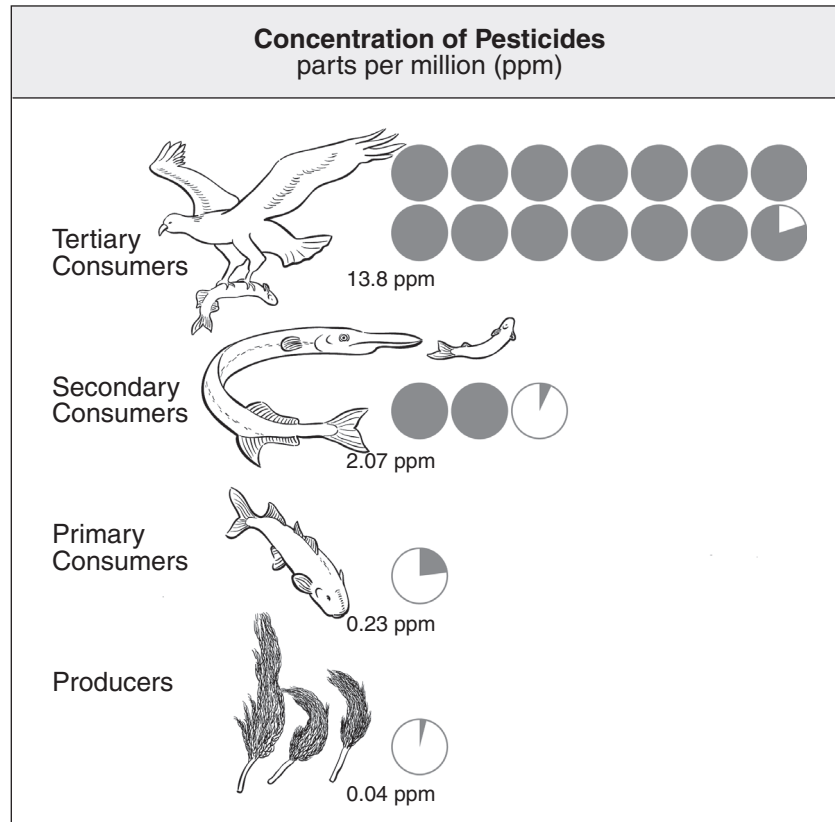


4. What geographic theme is associated with the map?

- A. movement
- B. translocation
- C. sustainable development
- D. human/physical interaction

5. Satellites and seismographs are all used to monitor which of the following?
- A. river erosion
 - B. climate change
 - C. volcanic eruptions
 - D. hurricane development
6. Natural disasters such as mudslides and flash floods occur as a result of interactions between the
- A. biosphere and atmosphere.
 - B. hydrosphere and biosphere.
 - C. lithosphere and hydrosphere.
 - D. atmosphere and asthenosphere.

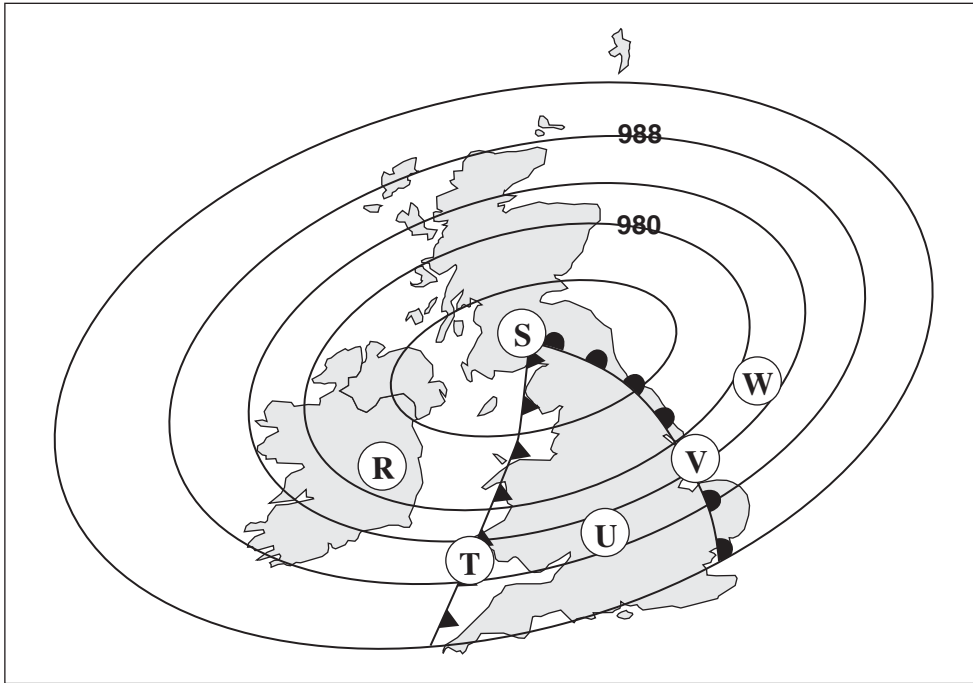
Use the following diagram to answer question 7.



7. Identify the process illustrated above.

- A. infiltration
- B. translocation
- C. eutrophication
- D. biomagnification

Use the following weather map to answer questions 8 to 11.



8. Which location has the lowest air pressure?
A. R
B. S
C. U
D. W

9. Which type of cloud is most closely associated with **location T**?
A. cirrus
B. cumulus
C. altostratus
D. cumulonimbus

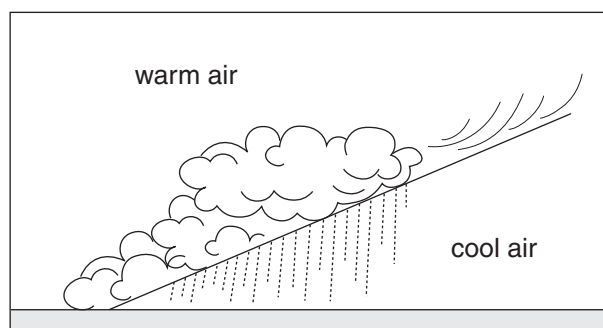
Use the following description to answer question 10.

Description
Winds: northwest
Temperature: cold
Air Pressure: increasing
Cloud Cover: clear skies

10. Match the map location to the description.

- A. R
- B. S
- C. T
- D. W

Use the weather map and the following cross section to answer question 11.

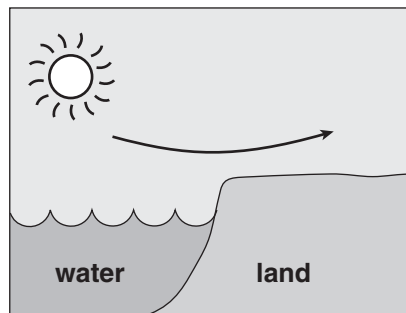


11. Identify the map location that best matches the cross section.

- A. R
- B. T
- C. U
- D. V

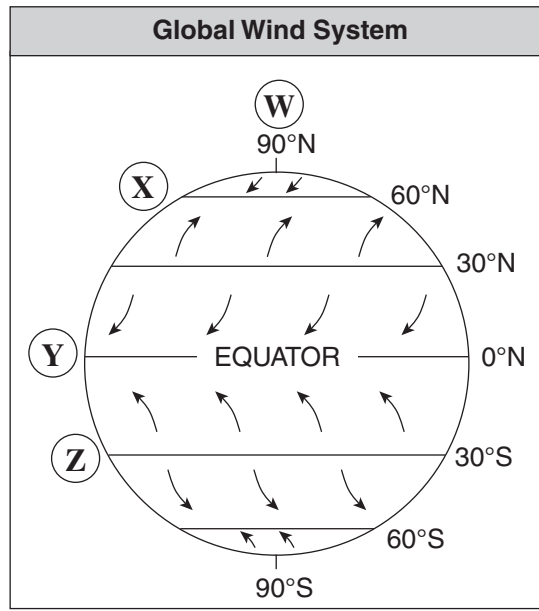
12. Which process involves the changing of water from a gas to a liquid?
- A. infiltration
 - B. evaporation
 - C. transpiration
 - D. condensation
13. Sulphur dioxide emissions are the major cause of which atmospheric threat?
- A. climate change
 - B. ozone depletion
 - C. acid precipitation
 - D. greenhouse effect

Use the following diagram to answer question 14.



14. What local wind is illustrated in the diagram?
- A. chinook
 - B. doldrum
 - C. sea breeze
 - D. land breeze

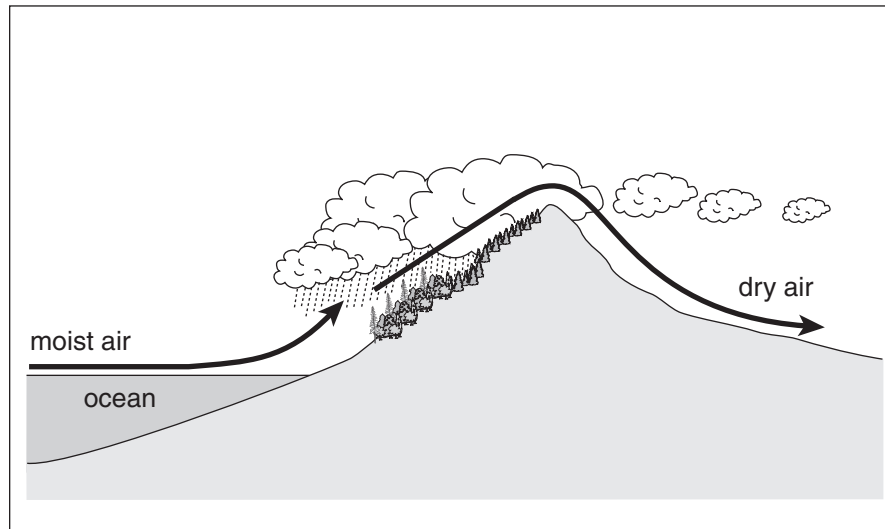
Use the following diagram to answer question 15.



15. Identify the areas dominated by belts of high barometric pressure.

- A. W and X
- B. X and Y
- C. Y and Z
- D. W and Z

Use the following diagram to answer question 16.



16. What type of rainfall is illustrated above?

- A. frontal
- B. cyclonic
- C. orographic
- D. convectional

17. What effect does the Gulf Stream have on the climate of Western Europe?

- A. mild winters
- B. hot summers
- C. low precipitation
- D. short growing season

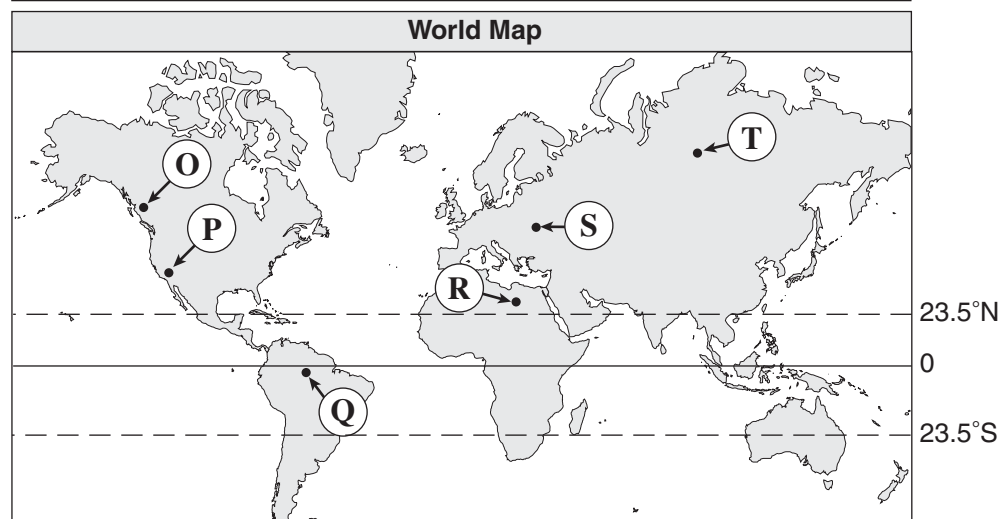
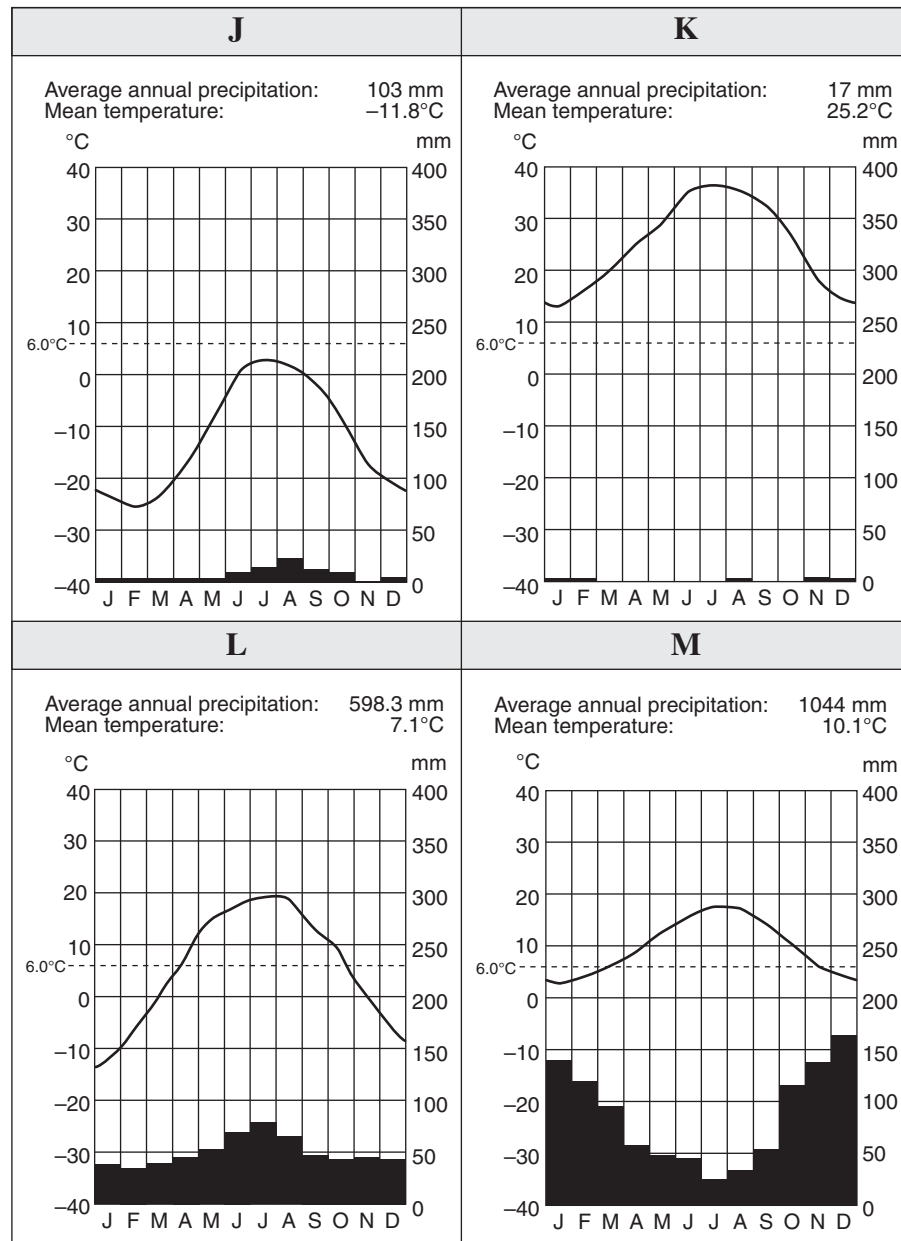
18. Terra rosa soils, sclerophyll forests and olive trees are typical of which climate region?
- A. Desert
 - B. Mediterranean
 - C. Humid Continental
 - D. West Coast Marine

Use the following photograph to answer question 19.



19. Identify the biome in the photograph.
- A. mixed forest
 - B. steppe grassland
 - C. tropical rainforest
 - D. savanna woodland

Use the following climate graphs and world map to answer questions 20 to



20. Which climate control is responsible for the temperature range associated with **climate graph J**?
- A. latitude
 - B. elevation
 - C. ocean current
 - D. mountain barrier
21. Identify the plant adaptation that best matches **climate graph M**.
- A. thick bark and waxy needles
 - B. waxy skin with pulpy interiors
 - C. drought resistant with shallow roots
 - D. stunted growth and quick germination period
22. **Map Location S** best matches which **climate graph**?
- A. J
 - B. K
 - C. L
 - D. M

Use the following biome data to answer question 23.

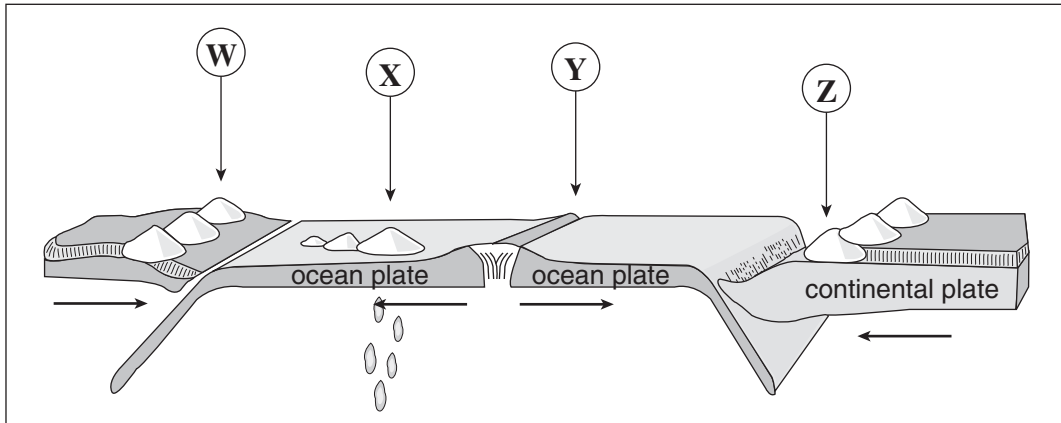
Precipitation	Diurnal temperate range	Soil	Plants
very low	moderate	sierozem	sparse

23. The biome data matches which location on the **world map**?
- A. O
 - B. P
 - C. Q
 - D. T
-
24. Deforestation of hardwoods and slash-and-burn agriculture are associated with which **map location**?
- A. O
 - B. Q
 - C. R
 - D. S

25. Which of the following is responsible for the formation of metamorphic rocks?

- A. intense heat and pressure
- B. extrusive volcanic activity
- C. rapid cooling and solidification
- D. extensive weathering and erosion

Use the following diagram to answer questions 26 and 27.



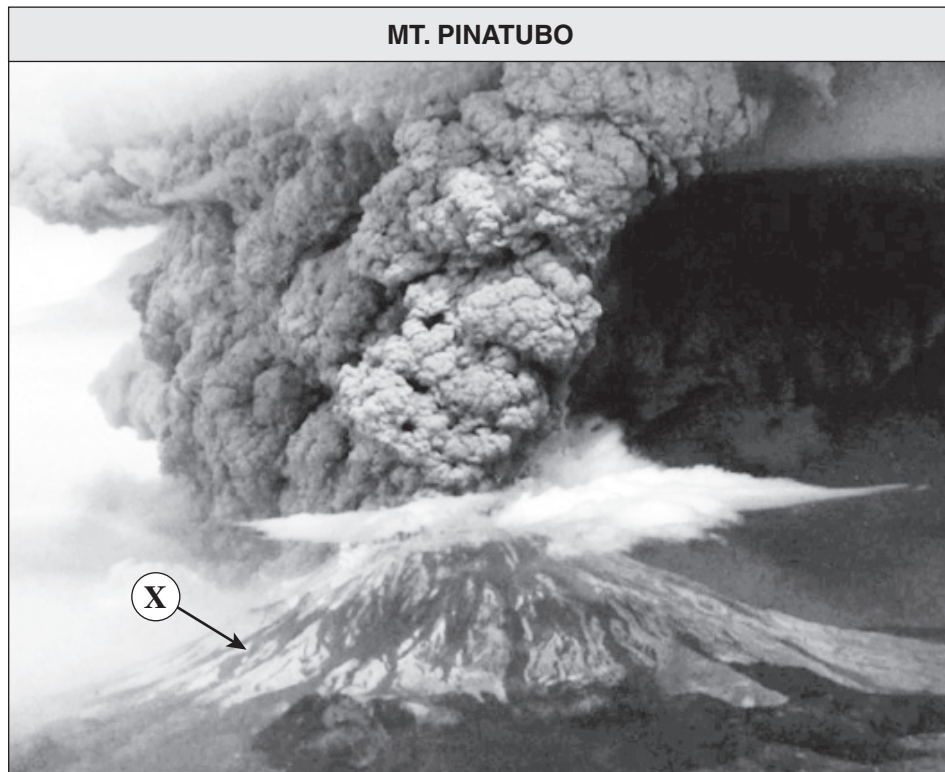
26. Which location is associated with plate formation?

- A. W
- B. X
- C. Y
- D. Z

27. Identify the feature at location Z.

- A. rift
- B. trench
- C. tear fault
- D. ocean ridge

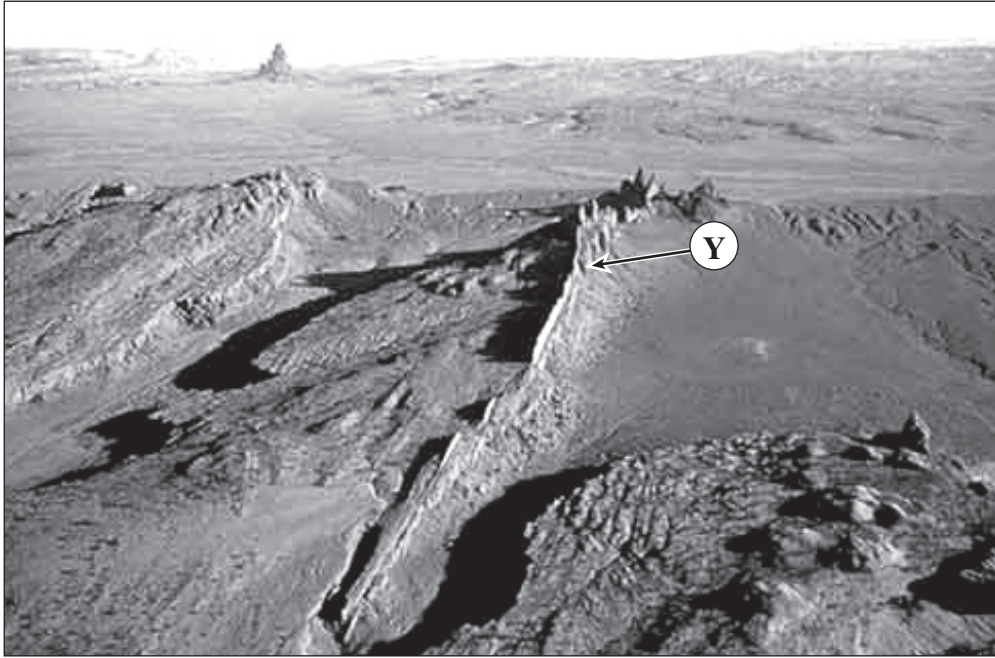
Use the following photograph to answer question 28.



28. Identify feature **X** in the photograph.

- A. caldera
- B. fumerole
- C. shield volcano
- D. composite cone

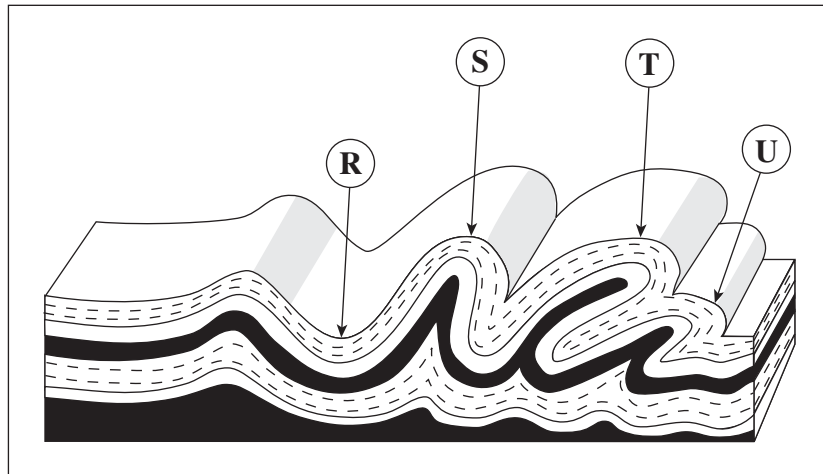
Use the following photograph to answer question 29.



29. Identify feature **Y** in the photograph.

- A. arête
- B. dyke
- C. levee
- D. laccolith

Use the following diagram to answer questions 30 and 31.



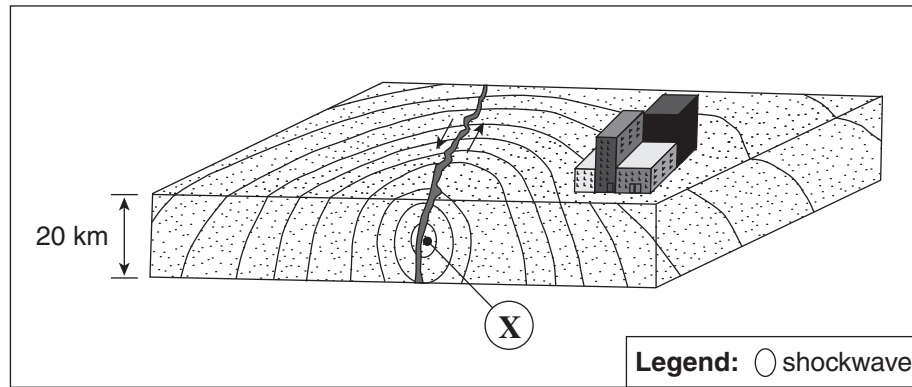
30. Identify the syncline in the diagram.

- A. R
- B. S
- C. T
- D. U

31. What process is responsible for the formation of the features?

- A. rifting
- B. tension
- C. divergence
- D. compression

Use the following diagram to answer question 32.



32. Identify feature **X** in the diagram.

- A. focus
- B. trench
- C. anticline
- D. epicentre

33. The greatest loss of life and property damage is associated with high-magnitude earthquakes located on

- A. lava plateaux.
- B. ancient shields.
- C. alluvial deposits.
- D. extensive batholiths.

Use the following photograph to answer question 34.



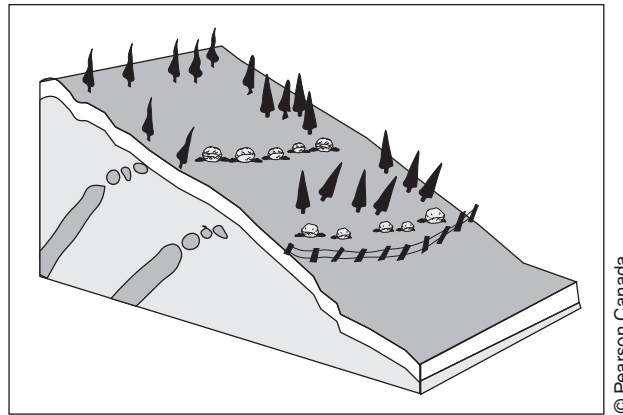
34. Which weathering process is **most likely** responsible for the damage in the photograph?

- A. solution
- B. oxidation
- C. hydration
- D. exfoliation

35. Which of the following are physical weathering processes?

- A. freeze–thaw and oxidation
- B. hydrolysis and carbonation
- C. frost shattering and exfoliation
- D. thermal expansion and hydration

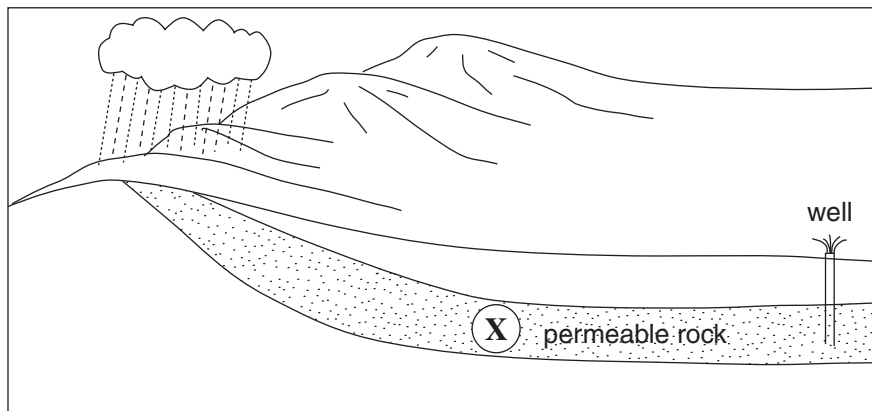
Use the following diagram to answer question 36.



36. Identify the process illustrated in the diagram.

- A. slumping
- B. soil creep
- C. debris flow
- D. liquefaction

Use the following diagram to answer question 37.



37. What is feature **X** in the diagram?

- A. sill
- B. fissure
- C. aquifer
- D. flowstone

Use the following photograph to answer question 38.



38. Identify feature X.

- A. sand spit
- B. talus slope
- C. alluvial fan
- D. medial moraine

Use the following photograph to answer question 39.



39. Which process was primarily responsible for the shaping of the feature in the photograph?

- A. attrition
- B. abrasion
- C. plucking
- D. refraction

Use the following photograph to answer questions 40 and 41.



40. Identify the type of lake shown at **X** in the photograph.
- A. tarn
 - B. playa
 - C. ribbon
 - D. oxbow
41. Based on evidence in the photograph, which activity benefits the most from the river?
- A. logging
 - B. agriculture
 - C. strip mining
 - D. power generation

Use the following photograph to answer question 42.



42. The dominant process responsible for shaping the landscape is
- A. glacial action.
 - B. fluvial erosion.
 - C. wind deposition.
 - D. isostatic adjustment.
-
43. Identify the processes responsible for the formation of horns, arêtes, cirques and truncated spurs.
- A. abrasion and deflation
 - B. attrition and exfoliation
 - C. corrosion and hydrolysis
 - D. freeze-thaw and plucking

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Use the following photograph to answer question 44.



44. Identify feature **Y** in the photograph.

- A. spit
- B. tombolo
- C. sea stack
- D. point bar

**REFER TO
DATA PAGES**

Use the Topographic Map and Air Photograph of Saint John's
New Brunswick to answer questions 45 to 53.

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45. What is the road distance along Hwy 1 between the overpass at 295173 and the overpass at 331233?
- A. 3.5 km
 - B. 5.0 km
 - C. 7.0 km
 - D. 14.0 km
46. What is the direction from McNamara Point (3316) to Long Lake (3021)?
- A. northeast
 - B. southeast
 - C. northwest
 - D. southwest
47. What is the approximate area of Rockwood Park?
- A. 3 km²
 - B. 6 km²
 - C. 9 km²
 - D. 12 km²
48. In what direction is Little River flowing in grid square 3419?
- A. east
 - B. west
 - C. north
 - D. south
49. What is the approximate elevation of the top of the hill at 292220?
- A. 140 feet
 - B. 300 feet
 - C. 380 feet
 - D. 480 feet

50. Identify the physical feature at 337189.
- A. rapids
 - B. meander
 - C. finger lake
 - D. braided stream
51. What processes are responsible for the formation of Red Head (3315)?
- A. hydration and saltation
 - B. corrasion and quarrying
 - C. hydraulic action and abrasion
 - D. wave refraction and longshore drift
52. What is the natural resource that is being exploited at 285192?
- A. alluvial soil
 - B. gravel deposit
 - C. bituminous coal
 - D. coniferous forest
53. Identify the cultural feature at **1P** on the air photo.
- A. cement plant
 - B. sewage pond
 - C. shopping centre
 - D. elementary school

This is the end of the multiple-choice section.
Answer the remaining questions directly in the Response Booklet.

Organization and Planning

Use this space to plan your ideas before writing in the **Response Booklet**.

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PART B: WRITTEN RESPONSE

Value: 40 marks

Suggested Time:

INSTRUCTIONS: Answer each question in the **Response Booklet**. You may not need all of the space provided. Answers should be written in **ink**. **Comprehensive answers are required for full marks.**

REFER TO DATA PAGES

Use the Topographic Map and Air Photograph of Saint John, New Brunswick to answer questions 1 and 2.

1. **Outline:**

- two ways that humans depended on the environment in the Saint John region
- AND**
- two ways that humans modified the environment in the Saint John region

Use **page 1** in the Response Booklet.

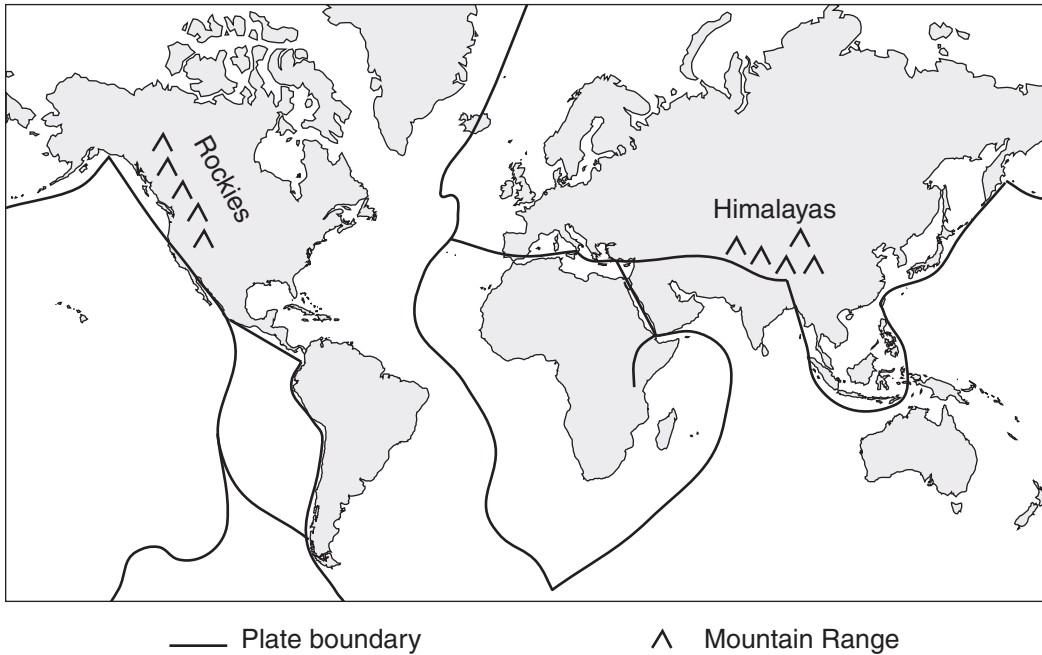
(4 marks)

2. The Saint John Harbour has been dubbed *The World's Greatest Toilet* because six million litres of waste are dumped into the water courses each day. **Use** the map and air photograph to **identify** the sources of this waste and **explain** the impact of these wastes on the environment. Answer in **paragraph** form.

Use **page 2** in the Response Booklet.

(6 marks)

Use the following map to answer question 3.



3. **Outline** three advantages and three disadvantages associated with living in the mountainous regions as shown above.

Use **page 3** in the Response Booklet.

(6 marks)

Organization and Planning

Use this space to plan your ideas before writing in the **Response Booklet**.

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4. **Compare** and **contrast** tropical and temperate deforestation. Both similarities and differences must be addressed for full marks. Answer in **paragraph** form.

Use **page 4** in the Response Booklet.

(6 marks)

Organization and Planning

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Organization and Planning

Use this space to plan your ideas before writing in the **Response Booklet**.

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**REFER TO
DATA PAGES**

Use the case study of the Mackenzie River Drainage
to answer question 5.

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5. Using your understanding of geography and the data provided:
- **Describe** the physical characteristics of the Mackenzie River Region.
 - **Explain** the impact of the climate change on the region.
 - **Assess** why it is difficult for people to implement strategies that would reduce the rate of climate change.

Answer in a **multi-paragraph** essay.

Use **pages 5 to 8** in the Response Booklet.

(18 marks)

END OF EXAM

