The lithosphere and the hydrosphere

 **ChaptEr 6**

**EST**

**Questions 1–36 and A–D**

 Checkups and follow-ups

 **12.** In the Canadian Arctic, houses are sinking into the ground, and runways are cracking. Explain your answer.

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 **13.** Is there any vegetation in the Far North of Québec? Explain your answer.

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**14.** Vicky, who lives in the village of Kuujjuaq in northern Québec, wants to build a house on
piles.

 **a)** Given that the active layer in her region is 1.5 m thick, how long should the piles be? Explain your answer.

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 **b)** Can Vicky be sure of the long-term stability of her house?

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 **15.** Name three fuels that come directly from the lithosphere.

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 **16.** Name the form of energy described in each statement.

 **a)** It is produced by atomic fission.

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 **b)** It is the result of the decomposition of prehistoric plants and animals.

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 **c)** It is derived from the internal heat of the Earth.

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 **d)** It emits more greenhouse gases than any other form of energy.

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 **e)** It leaves behind radioactive waste.

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 **f)** It is in danger of running out within the next few decades.

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 **17.** Name three farming practices that lead to soil depletion.

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 **18.** Name one advantage and one disadvantage
 of using heavy machinery on farmland.



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 **19.** Nitrogen oxides (NO*x*) and sulphur dioxide (SO2) are emitted by car engines and industrial
processes.

 **a)** What happens when they come into contact with rainwater?

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 **b)** How does this rain affect the soil?

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