1) D 2) C 3) A 4) D 5) A

6) C 7) B 8) B 9) A 10) B

11) C 12) A 13) B 14) D 15) B

16) A 17) C 18) D 19) A 20) B

21) C 22) D 23) C 24) A 25) C

26) B 27) D 28) C 29) D 30) B

31) C 32) B 33) C 34) D 35) A

36) B 37) A 38) C 39) D 40) D

41) C

42) SAMPLE ANSWERS: parallel scratches (grooves, striations) OR Surface bedrock is polished. OR moraine deposits

43) SAMPLE ANSWERS: U-shaped valley OR The valley would have a rounded or flat bottom. OR steep sides and wide valley

44) silt

45) SAMPLE ANSWERS: scratches/striations on the bedrock surface OR grooves in bedrock OR a boulder transported from a more northerly outcrop on the bedrock OR an erratic OR drumlin

46) SAMPLE ANSWERS: Moraines: unsorted sediments/mixed particles OR unlayered; Outwash plain: sorted deposits OR layered sediments

47) SAMPLE ANSWERS: The valley would have a U-shaped appearance. OR flat bottom and steep sides OR rounded shape

48) SAMPLE ANSWERS: The ice is white/light colored. OR The smooth ice reflects better than rougher land terrain. OR The bedrock/soil is darker colored. OR Snow and ice reflect more insolation. OR has a higher albedo

49) SAMPLE ANSWERS: U-shaped: It was eroded by glaciers. OR A glacier formed the valley. OR formed by glacial ice; V-shaped: Running water cut the V-shaped valley. OR A stream formed the valley.

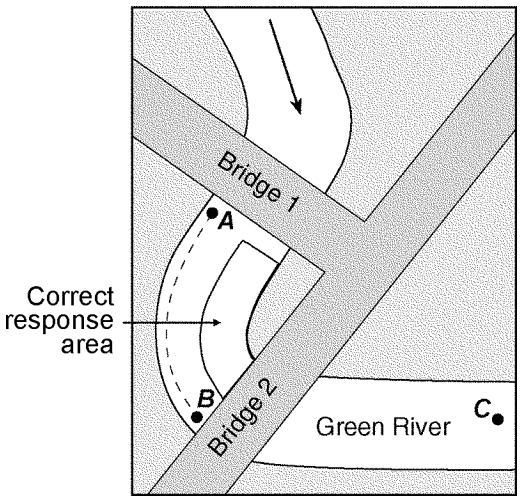
50) SAMPLE ANSWERS: Point *X* is on the outside of a meander curve. OR Stream velocity is greater at point *X*. OR More deposition occurs at *Y*.

51) SAMPLE ANSWERS: The stream began to flow over a nearly flat landscape. OR Stream velocity decreased. OR Gradient decreases from the mountains to the floodplain. OR The stream flows more slowly on the floodplain. OR The floodplain is composed of loose sediment.

52) sandstone

53) SAMPLE ANSWERS: Erosion is greater on the outside of the meander curve. OR The velocity of the stream is greater at point *A*.

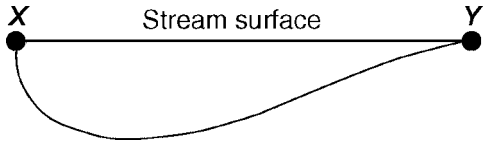
54)




55) 50 cm/s

56) SAMPLE ANSWERS: pebbles OR 2-cm to 3-cm-diameter particles

57)




58) SAMPLE ANSWERS: Water velocity decreases, causing some sediment to be dropped. OR The stream slows down as it enters the lake.

59) 80 cm/s to 100 cm/s

60)