Glorious Glaciers Answer Key

1.) Kame

2.) Tarn

3.) Moulin

4.) Nunatak

5.) Hanging Glacier

6.) Piedmont Glacier

7.) Rock Glacier

8.) Valley Glacier

9.) True

10.) False

11.) False

12.) True

13.) False

14.) True

15.) True

16.) False

17.) False

18.) False

19.) True

20.) True

21.) False

22.) The milankovitch cycles refer to long term variations in the orbit of the Earth which result in changes in climate over periods hundreds of thousands of years and are related to ice age cycles.

23.) Eccentricity, Obliquity, Precession

24.) Alpine glaciers move through two important processes: Gravity and Basal Sliding. The heavier a glacier, the more powerful the force of gravity will be, so the glacier will be pulled down the mountain. Water at the bottom of the glacier reduces friction making it easier to slide.

25.) Plastic Flow is when the molecules of ice form sheets and slide on top of another. The ice moves internally almost like a plastic.

26.) Basal sliding occurs when water is present under the glacier. Water is formed toward the bottom of the glacier because of the pressure of the overlying ice. This melt water reduces friction and allows the ice to move more quickly.

27.) H

28.) Q

29.) A

30.) R

31.) M

32.) B

33.) F

34.) N

35.) J

36.) C

37.) L

38.) D

39.) G

40.) I

41.) E

42.) K

43.) O

44.) P

45.) A Depositional

46.) B Erosional

47.) A Depositional

48.) B Erosional

49.) C Depositional

50.) B Erosional

51.) B Erosional

52.) C Erosional

53.) A Depositional

54.) B Erosional

55.) C Erosional

56.) C Depositional

57.) B Erosional

58.) A Erosional

59.) B Erosional

60.) A Erosional

61.) B Erosional

62.) B Erosional

63.) A Depositional

64.) A

65.) D

66.) A

67.) B

68.) D

69.) C

70.) D

71.) D

72.) C

73.) A

74.) C

75.) Antarctica

76.) Alaska or North America

77.) New Zealand

78.) Norway

79.) Chile and Argentina

80.) New Zealand

81.) Iceland

82.) Canada

83.) Argentina

84.) Alaska

85.) Alaska and Canada

86.) India

87.) Antarctica