

Name _____

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

- 1) Where is the world's largest ice sheet located today?
A) Alaska B) Greenland C) Iceland D) Antarctica

- 2) Which one of the following is true of glaciers?
A) They originate on land. B) They show evidence of flow only from the past.
C) They form from the recrystallization of water. D) They exist only in the Northern Hemisphere.

- 3) Where do crevasses form?
A) below the zone of fracture B) at the terminus
C) in icebergs D) in the zone of fracture

- 4) If accumulation exceeds ablation in a glacial budget, which of the following will happen?
A) The glacier will begin to flow uphill.
B) The glacier will melt away due to climate change.
C) The terminus will shift uphill ("retreat").
D) The terminus will move downhill ("advance").

- 5) In an area of alpine glaciation, sinuous, sharp-edged ridges called _____ and sharp, pyramid-like peaks called _____ are common features.
A) tarns; cirques B) horns; hanging valleys
C) cirques; arêtes D) arêtes; horns

- 6) If you were on a geology field trip in an area of glacial deposition, how would you distinguish between samples of till and stratified drift?
A) by comparing their grain size and sorting
B) with a rock hammer
C) with hydrochloric acid
D) by comparing the specific gravity of the two samples

- 7) Which of the following is a variety of moraine?
A) hanging B) cirque C) lateral D) kettle

- 8) _____ are *erosional* features produced by valley (alpine) glaciers.
A) Eskers B) Cirques C) Moraines D) Drumlins

- 9) During the last Ice Age, approximately 30% of Earth's land surface was covered by glaciers. Which of the following areas experienced the most glaciation?
A) Australia B) Europe C) North America D) Siberia

- 10) Which of the following lakes are remnants of Lake Agassiz?
A) Great Lakes B) Lake Bonneville C) Walden Pond D) Great Salt Lake

- 11) About what percentage of Earth's land surface is covered by deserts?
A) 3% B) 55% C) 15% D) 30%

- 12) How is desert different from steppe?
- A) Steppe is more humid than desert.
 - B) Steppe occurs at subtropical latitudes, but not at mid-latitudes in continental interiors.
 - C) Desert is more humid than steppe.
 - D) Desert occurs at subtropical latitudes, but not at mid-latitudes in continental interiors.
- 13) A rainshadow desert forms _____.
- A) when dry air descends from high in the atmosphere between 20° and 30° latitude
 - B) near the equator, where moist air rises (because it is hot and less dense) up, away from Earth's surface
 - C) in cold, polar regions
 - D) in places where mountain ranges act as barriers to the movement of water vapor
- 14) Sand is deposited on the _____ side of a dune.
- A) blowout
 - B) deflated
 - C) leeward
 - D) wind
- 15) When a glacial trough is "drowned" by the sea, the result is a(n) _____.
- A) cirque
 - B) horn
 - C) fiord
 - D) arête
- 16) Which of the following is the least effective agent of erosion?
- A) ice
 - B) water
 - C) wind
- 17) Course-grained sediments such as pebbles and cobbles often comprise the _____ in desert environments.
- A) loess
 - B) blowout
 - C) dunes
 - D) desert pavement
- 18) A landscape dominated by U-shaped valleys and pyramid-shaped mountains is most likely formed due to _____.
- A) lithification
 - B) glaciation
 - C) dissolution
 - D) desertification
- 19) A(n) _____ is a fan-shaped wedge of debris that forms where an ephemeral stream emerges from the confines of the canyon. Its runoff spreads over the gentler slopes at the base of the mountains and quickly loses velocity, dumping most of its sediment load within a short distance.
- A) alluvial fan
 - B) esker
 - C) drumlin
 - D) delta
- 20) _____ form from the coalescence of multiple alluvial fans.
- A) Bajadas
 - B) Deltas
 - C) Inselbergs
 - D) Mesas
- 21) Desert regions that exhibit a discontinuous pattern of ephemeral streams that do not flow out of the desert to the ocean are said to have a(n) _____.
- A) evapotranspiration
 - B) interior drainage
 - C) subterranean drainage
 - D) exterior drainage
- 22) Approximately _____ cycles of cooling and warming occurred during the last Ice Age.
- A) 15
 - B) 10
 - C) 5
 - D) 20
- 23) The Last Glacial Maximum occurred _____ years ago.
- A) 100,000
 - B) 6,000
 - C) 18,000
 - D) 24,000
- 24) Which of the following is an example of a glacial deposit?
- A) arête
 - B) cirque
 - C) horn
 - D) moraine

