

Part 1: Multiple-Choice Questions

- 1) Most coastal lagoons become, over time, _____.**
A) spits
B) marshes
C) rock outcrops
D) terraces
E) beaches
- 2) The _____ is regularly covered and uncovered by the rise and fall of tides.**
A) berm
B) offshore zone
C) terrace
D) backshore zone
E) foreshore zone
- 3) Most ocean waves are generated by _____.**
A) tides
B) wind
C) seismic activity
D) coastal refraction
E) vulcanism
- 4) Which of the following coastal features does NOT belong with the others?**
A) lagoon
B) marsh
C) barrier island
D) wave-cut bench
E) spit
- 5) Sea level changes result from _____.**
A) submergence of land masses
B) emergence of land masses
C) increase in the volume of seawater
D) decrease in the volume of seawater
E) all of the above
- 6) Which of the following is a topic of study in a physical geography course?**
A) landforms
B) soil
C) climate
D) water
E) all of the above
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7) The most widespread of all coastal depositional features is _____.

- A) the cliff
- B) the bar
- C) the beach
- D) the spit
- E) the tombolo

8) Which of the following is a shaper of the oceanic coastlines?

- A) long-term changes in the water level
- B) tidal movements
- C) waves
- D) humans
- E) all of the above

9) The combination of hydraulic pounding, abrasion, and other forces at the base of a sea cliff produces a(n) _____.

- A) notch
- B) doline
- C) lagoon
- D) spit
- E) atoll

10) The single most important force in shaping coastal topography is(are) the _____.

- A) waves
- B) longshore current
- C) tidal movement
- D) ice push
- E) stream outflow

11) The continental shelf _____.

- A) is a zone of high economic interest
- B) was largely above sea level 20,000 years ago
- C) only exists along the east coast of the U.S.
- D) all of the above
- E) A and B

12) The most prominent result of coastal submergence is the _____.

- A) drowning of river valleys
- B) formation of barrier islands
- C) creation of coral reefs
- D) creation of cliffs
- E) destruction of estuaries

13) Currently, _____ is rising, partly because of the melting and shrinking of glaciers.

- A) temperature
- B) sea level
- C) the sea bottom
- D) the amount of sea ice
- E) precipitation

14) Geomorphology focuses on understanding of _____ as the key to understanding landscapes.

- A) the biosphere
- B) geography
- C) processes
- D) the cooling of Earth from the original nebula
- E) geomorphologists

15) The lower sections of rivers are characterized by _____.

- A) vertical erosion and downcutting
- B) extremely turbulent flow
- C) no sediment transport
- D) lateral erosion and deposition
- C) perfectly laminar flow

16) The stage height of a stream or river refers to _____.

- A) the water depth at a particular point
- B) the height of the water level relative to a fixed datum
- C) the amount of water flowing in the stream or river
- D) an imminent flooding event
- E) something not measured at all

17) Over time, which of the following has happened to Niagara Falls?

- A) They have become rapids.
- B) They have migrated several kilometers upstream.
- C) They have migrated several kilometers downstream.
- D) They have drained away most of Lake Ontario's water.
- E) They have evolved into the world's most famous example of stream capture.

18) Which stream channels tend to be most turbulent?

- A) wide ones
- B) deep ones
- C) ones with high speeds of flow
- D) ones with smooth channel bottoms
- E) dry ones

19) Flooding of a stream starts when the stream rises to _____.

- A) its equilibrium level
- B) start sediment transport
- C) end bedload transport
- D) bankfull discharge
- E) flow laminar

20) What is happening today to Knightville Dam (or any other artificial reservoir)?

- A) Nothing
- B) It is slowly filling up with sediment.
- C) The dam is slowly weathering and will eventually collapse.
- D) A and B
- E) B and C

Part 2: Short-Answer Questions.

1. Why are *shorelines of submergence* so common today?
2. Describe and explain the process of beach drifting. What causes beach drifting? Name at least one landform associated with beach drifting and explain how it forms.
3. Why is it so flat here around Westfield State University?
4. What happens when you lick the rock at Natural Bridges State Park?
5. Describe the formation of a delta. Where do deltas form and how?
6. What factors influence the erosional effectiveness of a stream? In other words: what makes a stream more effective at eroding sediment?
7. Describe and explain the formation process and consequences of a cutoff meander and oxbow lake.
8. "Global Warming is the reason why glaciers are melting today". Comment and discuss the validity (or lack thereof) of this statement.