

Name: \_\_\_\_\_

Date: \_\_\_\_\_

- 1 Between water and land, which absorbs and which loses heat more slowly?
  - A Water absorbs and loses heat more slowly than land.
  - B Land absorbs and loses heat more slowly than water.
  - C Water absorbs heat more slowly; land loses heat more slowly.
  - D Land absorbs heat more slowly; water loses heat more slowly.
  - E They absorb and lose heat at the same rate.
- 2 Beginning with Surface Water put the following steps of the Hydrologic Cycle in the correct order.
  - A Precipitation
  - B Evaporation
  - C Ground water flow
  - D Condensation
- 3 Which of the following are true about Nansen bottles? (Input all that apply, then push the ENTER button.)
  - A Samples bottom sediments.
  - B Test for minute marine life.
  - C Records water temperature.
  - D Used at the surface by hand.
  - E Created in the late 19th century
- 4 The round trip of evaporation condensation, and return travel to sea by way of precipitation
  - A Precipitation cycle
  - B Hydrogen cycle
  - C Hydrologic cycle
- 5 Approximately how many knots does the wind need to be before whitecaps start to form on waves?
  - A 5
  - B 10
  - C 15
  - D 20

- 6 What causes the most change in shoreline?  
(Input the two best answers, then push the ENTER button.)
  - A sea life
  - B boat wake
  - C current
  - D waves
- 7 Waves of the sea as they break upon a shore or reef
  - A Gradient
  - B Breakers
  - C Swell
  - D Surf
- 8 When the sun and the moon line up directly the tides are at their \_\_\_\_ point. This is called \_\_\_\_\_.
  - A lowest; Neap Tide
  - B highest; Neap Tide
  - C highest; Spring Tide
  - D lowest; Spring Tide
- 9 Tidal energy is one of the oldest forms of energy used by humans. Put the following actions occurring in a dam in the correct order. (Input the answers in the correct sequence, then push the ENTER button.)
  - A Tides rise
  - B Turbines spin
  - C Generators powered
  - D Water released
- 10 Warm ocean current of northern Atlantic Ocean off North America  
Originates in Caribbean, passes through Straits of Florida, flows northward along southeast U.S. veers northeastward at Cape Hatteras into Atlantic Ocean and splits to form North Atlantic Drift and Canary Current
  - A Sargasso Sea
  - B Strait of Gibraltar
  - C Red Sea
  - D Gulf Stream

- 11 What bodies of seawater tend to have the highest concentrations of salt?
- A Land-locked lakes
  - B The open oceans
  - C Gulfs and bays
  - D Lagoons
- 12 What causes the Red Sea to appear red?
- A Large amounts of red-tinted krill and shrimp in these waters.
  - B Copper deposits on the bottom of the Red Sea.
  - C The Red Sea does not appear red.
  - D Red phytoplankton in the water.
- 13 What is the name of a long, smooth wave coming from a distant storm center?
- A Swell
  - B Trough
  - C Roll
  - D Crest
  - E Pitch
- 14 Which of the following is true concerning the concentration of salt in seawater?
- A The concentration of salt in seawater has varied widely over the past 10,000 years.
  - B The more salt content, the lower it's freezing point.
  - C The more salt content, the higher it's freezing point.
  - D Colder water tends to be saltier than warm water.
- 15 What is the name of the zone of the ocean between 260 and 566 feet where only very dark violet light is able to reach.
- A The lighted zone
  - B The continental slope
  - C The dark zone
  - D The twilight zone

- 16 Only magnesium and bromine are currently extracted commercially from ocean water. Why only these two minerals?
- A Because it is not possible to extract the other minerals.
  - B Because there is concern that extracting other minerals would result in damage to life in the oceans.
  - C Because it is easier to get the other minerals from mines on land.
  - D Because these are the only two minerals found in seawater.
- 17 What happens to water as it freezes?
- A It contracts
  - B It expands
  - C Its volume remains stable
  - D It becomes more dense
- 18 The speed of sound in water is
- A slower than in air and increases with temperature
  - B greater than in air but decreases as temperature increases
  - C greater than in air and increases with temperature
- 19 The movement of a tide toward the shore is called
- A high tide
  - B flood
  - C ebb
  - D low tide
- 20 In areas where high tide is common, twice daily the tide can sweep up a river in a
- A tidal bore
  - B tidal surge
  - C counter current
  - D rip current

Answer Key: NS2M3C5 - Seawater: It's Makeup and Movements (Exam)

Question:	Answer
1	A
2	BDAC
3	BCE
4	C
5	C
6	CD
7	D
8	C
9	ABCD
10	D
11	A
12	D
13	A
14	B
15	D
16	C
17	B
18	C
19	B
20	A