

Instructions (shown before students start the test)

Answer the following questions. Circle only ONE response for each question, there is no penalty for guessing so do not leave any questions blank.

Introduction (shown after students start the test)

Welcome to Water Quality B! This exam will test your knowledge of marine and estuary ecology, coral reef macroflora and fauna, and water quality monitoring. The entire test will be multiple choice and True/False, worth 2 points each. Good luck!

1. (2.00 pts) Due to active mixing and nutrient input, estuaries are very _____.

- A) Warm
- B) Large in size
- C) Small in size
- D) Biologically productive

2. (2.00 pts) All Banded Coral Shrimp (*Stenopus hispidus*) are members of the same _____.

- A) Species
- B) Community
- C) Habitat
- D) Coral Reef

3. (2.00 pts) What is an estuary?

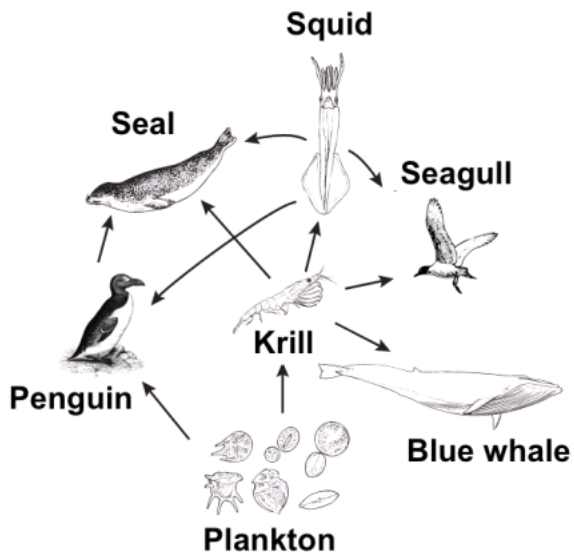
- A) A temporary pond of water created from high tides
- B) The area in which the mouth of a river meets the sea
- C) The deepest point in the ocean
- D) A coral reef that is attached to or borders adjacent land

4. (2.00 pts) A _____ is an example of a cnidarian.

- A) Blue whale
- B) Jellyfish
- C) Long-spined black sea urchin
- D) Banded coral shrimp

5. (2.00 pts) Looking at the image below, which is an example of a primary consumer?

Aquatic Food Web



- A) Krill
- B) Squid
- C) Seal
- D) Seagull

6. (2.00 pts) Which of these is a threat to coral reefs?

- A) Chemical pollutants
- B) Excess nutrients
- C) Coral bleaching
- D) All of the above

7. (1.00 pts) Identify the organism below



- A) Yellowfin Tuna
- B) Parrot Fish
- C) Butterfly Fish
- D) Fleshy Algae

8. (1.00 pts) Which region is this organism found in?



- A) Indo-Pacific only
- B) Atlantic only
- C) Around the Globe

9. (2.00 pts) Coral Reef bleaching positively impacts biological productivity by increasing biodiversity in the coral reef ecosystem.

- True
- False

10. (2.00 pts) Coral reefs are formed by the accumulation of

- A) Carbon Dioxide
- B) Calcium Chloride
- C) Sodium Chloride
- D) Calcium Carbonate

11. (2.00 pts) This is a measurement of how acidic or basic a solution is

- A) pH
- B) Phosphate level
- C) Salinity
- D) Turbidity

12. (2.00 pts) In relation to water monitoring and analysis, BOD stands for

- A) Biochemical Oxygen Diversity
- B) Biological Oxygen Demonstration
- C) Biodiversity on Demand
- D) Biochemical Oxygen Demand

13. (2.00 pts) How does evaporation impact the salinity of a solution?

- A) It causes salinity to increase
- B) It causes salinity to decrease
- C) It causes salinity to stay the same
- D) It causes salinity to decrease at first, then stay the same

14. (2.00 pts) Fecal coliform bacteria can enter the water from which pollutant?

- A) Feces from humans
- B) Feces from animals

- C) Acid Rain
- D) Both A and B

15. (2.00 pts) This is the most common stormwater pollutant in rural areas. It can cause excessive algae growth and is used in many fertilizers.

- A) Nitrates
- B) pH
- C) BOD
- D) Aragonite saturation

Congratulations on completing the exam!

Water Quality C - Water Quality C - MI Region 7 Jan Workshop - Region 7 January Workshop - 01-16-2021

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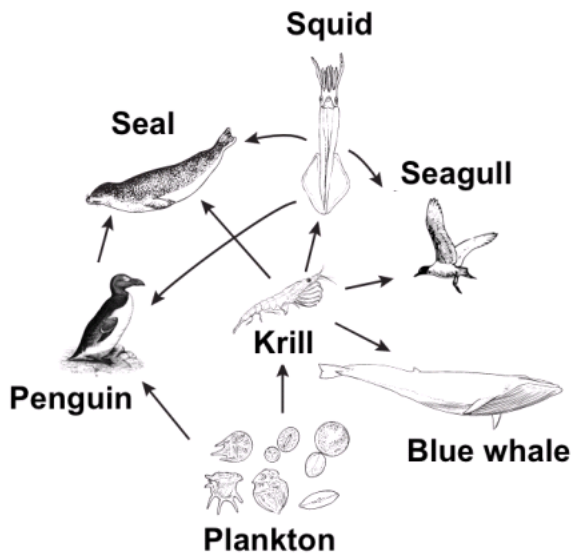
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