
Tossup

19) Biology-Multiple Choice: Which of the following hormones would be responsible for reducing the Ca^{2+} levels in the bloodstream?

w) Thyroxine
x) Parathyroid Hormone
y) Calcitonin
z) Follicle Stimulating Hormone

Answer: y) Calcitonin

Bonus

19) Biology-Short Answer: What type of muscle tissue would you primarily expect to find in the heart?
Answer: Cardiac Muscle

Tossup

20) Chemistry-Short Answer: How many lone pairs are on the oxygen atom in a water molecule?

Answer: 2

Bonus

20) Chemistry-Short Answer: What is the molecular geometry of Xenon Tetrafluoride?

Answer: Square Planar

Tossup

21) Earth and Space-Short Answer: Norway contains many glacier cut inlets. What are these inlets known as?
Answer: Fjords

Bonus

21) Earth and Space-Short Answer: What is sediment left behind by retreating glaciers known as?
Answer: Glacial Till or Glacial Moraine

Tossup

22) Physics-Short answer: How much power is dissipated by a circuit with 6 volts of potential and a resistance of 9 ohms?

Answer: 4 Watts

Bonus

22) Physics- Short Answer: Aneeka is making a circuit. She connects 3 2 ohm resistors in series with each other and one 5 ohm resistor in parallel to the first 3 resistors. What is the equivalent resistance of the system? Leave your answer as an improper fraction in simplest form.

30/11 ohms

Tossup

23) Math- Short Answer: If 5/x is equal to x/20, what are the possible values for x?

Answer: 10 and -10 (must have both numbers)

Bonus

23) Math—Short Answer: What is the solution to the equation $|3x-2|<10$?(read as Absolute value of the quantity 3x—2 is less than 10)?

Answer: $-8/3<x<4$