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QUESTION 1

Which of the following are not functions of bones in the human body?

- A. Movement
- B. Protection
- C. Hematopoiesis
- D. Reservoir of minerals
- E. All of the above are correct functions.

Correct Answer: E

Bone acts as levers in the body that conducts movement via the attached muscles. Bone also serves a protection function of internal organs (ex. skull protects the brain, vertebra protects the spinal cord). Hematopoiesis occurs in the bone marrow of the bone. Bone is also a reservoir of minerals as it contains approximately 99% of the body's calcium and 85% of the body's phosphorus.

QUESTION 2

Which of the following is defined by the 2nd law of thermodynamics?

- A. In any spontaneous process, the entropy of the universe always increases.
- B. Energy cannot be created or destroyed.
- C. The entropy of a perfect crystal approaches 0 as temperature approaches absolute 0.
- D. Any object in motion will remain in motion unless a force is acted upon it.
- E. For every action, there is an equal and opposite reaction.

Correct Answer: A

Answer choice [Energy cannot be created or destroyed.] is the 1st law of thermodynamics and [The entropy of a perfect crystal approaches...] is the 3rd law. Choices [Any object in motion will remain in...] and [For every action, there is...] are part of Newton's laws of motion.

QUESTION 3

Which of the following gives the correct order of electromagnetic radiation from the lowest frequency to the highest frequency?

- A. microwaves, UHF radio waves, x-rays, visible light
- B. UHF radio waves, microwaves, visible light, x-rays
- C. microwaves, visible light, x-rays, UHF radio waves



D. microwaves, x-rays, visible light, UHF radio waves

Correct Answer: B

Radio waves have the lowest frequency and the longest wavelength. Microwaves also have low frequencies and long wavelengths compared to visible light. X-rays are highly energetic and have higher frequencies and smaller wavelengths than visible light.

QUESTION 4

The difference between one half of a number and one eighth of a number is 15. What is this number?

- A. 32
- B. 40
- C. 48
- D. 56
- E. 64

Correct Answer: B

Start with 32. If you half it, that is 16. One eighth of 32 is 4. Thus the difference between these numbers is 12.

Proceed to 40. Half of 40 = 20. One eighth of 40 is 5. Thus, the difference is $20 - 5 = 15$, which is the answer.

QUESTION 5

If Kevin weighs 80 N on planet Earth, what will his weight be on the moon?

- A. The same
- B. He will weigh more on the moon
- C. He will weigh less on the moon
- D. Cannot be determined

Correct Answer: C

Weight = mass \times gravity

Kevin will have the same mass on Earth and the moon, but gravity on the moon is lower than the gravity on the Earth. Due to the correlation between weight and gravity, a lower gravity means a lower weight. Hence why Kevin will weigh less on the moon.