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QUESTION 1

An IR chart showed a distinct peak at $\sim 1710\text{ cm}^{-1}$. Which of the following does the peak represent best in an unknown compound?

- A. C = C
- B. C = O
- C. O – H (alcohol)
- D. Aromatic C – C
- E. N – H

Correct Answer: B

A carbonyl has a distinct peak at ~ 1710 whereas a C = C bond has a peak at ~ 1650 . Alcohols (OH) have a broad peak around 3300, as do N – H bonds (not as broad as OH however).

QUESTION 2

Rank the following in ascending order of wavelength magnitude:

- I. Gamma rays
- II. X-Rays
- III. Visible light

IV.

Radio waves

A.

III –andgt; I –andgt; II –andgt; IV

B.

I –andgt; II –andgt; III –andgt; IV

C.

II –andgt; I –andgt; IV –andgt; III

D.

IV –andgt; III –andgt; II –andgt; I

E.

II –andgt; I –andgt; III –andgt; IV

Correct Answer: B

The energy and frequency increases from Radio waves –andgt; Microwaves –andgt; IR –andgt; Visible light –andgt; UV –andgt; X-Rays –andgt; Gamma rays.

But wavelength increases inversely, starting from Gamma rays (having the smallest wavelengths) to Radio waves (having the largest wavelengths)

QUESTION 3

A pizza dough recipe calls for 2 cups of flour and 1 1/2 teaspoons of salt. How much salt would you need if you wanted to triple the recipe?

- A. 1 tablespoon
- B. 3 teaspoons
- C. 6 teaspoons
- D. 4 1/2 teaspoons

Correct Answer: D

$$1 \frac{1}{2} \times 3 = 4 \frac{1}{2}.$$

QUESTION 4

In times of starvation, which of the following would NOT be expected to be seen in high quantity in the blood?

- A. Glucagon
- B. Ghrelin
- C. Ketone bodies
- D. Insulin
- E. B and D

Correct Answer: D

In times of starvation, glucagon is released by the alpha cells of the pancreas to signal to the liver to break down stored glycogen into free glucose molecules that can enter the blood stream where they are lacking. Ghrelin plays a role in signaling the urge to be `hungry`. Ketone bodies are released by the liver in times of starvation (especially carbohydrate starvation) where they are picked up by cells, converted into acetyl-CoA, entering the TCA cycle.

QUESTION 5

A segment of DNA contains the following code: ATGGCGCCTTA. What would the sequence of its transcribed mRNA be?

- A. ATTCCGCGGTA
- B. TACCGCGGAAT
- C. UACCGCGGAU
- D. AUCCGCGGAAT
- E. ATGGCGCCTTA

Correct Answer: C

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