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QUESTION 1

In photosynthesis, high-energy electrons move through electron transport chains to produce ATP and NADPH. Which of the following provides the energy to create high energy electrons?

- A. O₂
- B. Light
- C. Water
- D. NADP⁺
- E. NADH

Correct Answer: B

Electrons trapped by the chlorophyll P680 molecule in photosystem II are energized by light. They are then transferred to electron acceptors in an electron transport chain.

QUESTION 2

A small t-shirt store sells two different kinds of shirts: short sleeve cost \$15.00 and long sleeve cost \$18.00. If the store sold 21 shirts last night and made \$351, how many of each kind of shirt did the store sell?

- A. 9 short sleeve and 12 long sleeve
- B. 6 short sleeve and 9 long sleeve
- C. 8 short sleeve and 11 long sleeve
- D. 7 short sleeve and 10 long sleeve

Correct Answer: A

If x denotes short sleeve shirt and y denotes long sleeve shirt, $x + y = 21$ and $15x + 18y = 351$
 $15(21 - y) + 18y = 351$
 $315 - 15y + 18y = 351$
 $3y = 36$
 $y = 12$ and $x = 9$

QUESTION 3

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 4

In a classroom of 189 students, the ratio of boys to girls is 5 : 4. How many boys are there in the classroom?

A. 38

B. 84

C. 105

D. 120

E. 155

Correct Answer: C

The simplest way to approach these problems is to divide the total number of students (189) by the combined 'parts' ($5 + 4 = 9$). Thus $189 \div 9 = 21$.

Multiply 21 by the gender of interest ratio (5): $21 \times 5 = 105$ male students.

For females you would multiply 21 by 4 = 84 female students.

Add $105 + 84$ to verify = 189.

QUESTION 5

Which of the following is the largest organelle in an animal cell?

- A. Mitochondrion
- B. Chloroplast
- C. Nucleus
- D. Vacuole
- E. Golgi apparatus

Correct Answer: C

An animal cell has neither chloroplast nor vacuole, thus B and D can be eliminated. In an animal cell, the nucleus is indeed the largest organelle (in relation to diameter).

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