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QUESTION 1

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 2

Predict the product of the following reaction: A. Option A







A.





E. A&C

- B. Option B
- C. Option C
- D. Option D
- E. Option E
- Correct Answer: E

The NH3 is an activating, ortho/para director, and is capable of yielding the 2 products shown in A and C.

QUESTION 3

Jellyfish possess what type of circulatory system?

A. Closed circulatory system



- B. Open circulatory system
- C. Dorsal vessel
- D. Double circulatory system
- E. It has no circulatory system

Correct Answer: E

Cnidarians (like the jellyfish) do not possess a circulatory system and use diffusion to circulate materials instead. It is vital to know the circulatory, reproductive, excretory, respiratory etc. systems of each phylum as you will be tested on it in the biology section!

QUESTION 4

Darwin\\'s idea that evolution occurs by the gradual accumulation of small changes can be summarized as:

- A. Convergent evolution
- B. Adaptive radiation
- C. Punctuated equilibrium
- D. Phyletic gradualism
- E. Sympatric speciation

Correct Answer: D

Phyletic gradualism is the view that evolution occurs at a more or less constant rate. Contrary to this view, punctuated equilibrium holds that evolutionary history consists of long periods of stasis punctuated by geologically short periods of evolution. This theory predicts that there will be few fossils revealing intermediate stages of evolution, whereas phyletic gradualism views the lack of intermediate-stage fossils as a deficit in the fossil record that will resolve when enough specimens are collected.

QUESTION 5

In the following circuit, identify the current going through I3.





A. 1.25 A

B. 2 A

C. 2.5 A

D. 5 A

E. 10 A

Correct Answer: C

Begin by finding the total resistance of this circuit. Because this is a parallel circuit, total resistance is

measured with the formula: 1/R = 1/R1 + 1/R2 etc.

1/R = 1/8 + 1/8 + 1/4 = 1/2

Thus, R = 2

To find the current of I3, use the formula: I = V / R

I = 10 / 4 = 2.5 A

If one wanted to confirm their answer, they could find the currents of the other resistors and add up them.

They should add up to the total current (I = V / R = 10 / 2 = 5 A).

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