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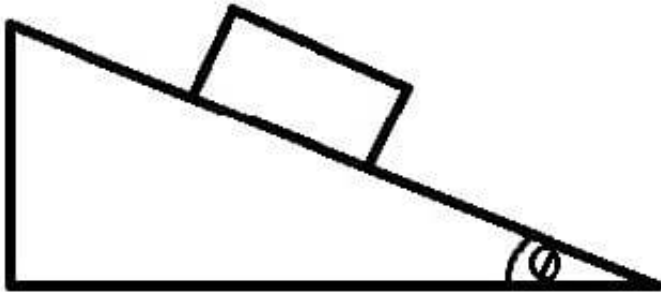
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QUESTION 1

For the incline plane diagram below, which of the answer choices best represents the normal force experienced by this block?



- A. mg
- B. $mg\sin$
- C. $mg\cos$
- D. $\mu mg\cos?$
- E. ma

Correct Answer: C

In an inclined plane, the normal force is $mg\cos$. It is important you know all aspects of a incline plane problem as it is an almost guaranteed question. If one did not know the equation for the normal force, one could not calculate it if presented with numbers.

QUESTION 2

Lex's mom buys 3 of each kind of cookie for a picnic. If the store gives a 10% discount for purchase of a dozen cookies, how much did she spend?

- A. \$22.60
- B. \$21.60
- C. \$23.00
- D. \$24.00

Correct Answer: B

$\$6 + \$4.50 + \$7.50 + \$6 = \$24$. 10% of $\$24 = \2.40 . $\$24 - \$2.40 = \$21.60$.

QUESTION 3

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).

QUESTION 4

A charged particle is traveling to the right with its magnetic field coming into the page (or screen). Which direction does its force face?

- A. Out of the page
- B. Into the page
- C. Left
- D. Right
- E. Up

Correct Answer: E

Using the right-hand rule, thumb is velocity (pointing right, as particle travels to the right), fingers are magnetic field (point away from you) and thus the force (palm) points up.

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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