# PCAT-SECTION3 ${ }^{\text {Q\&As }}$ 

Pharmacy College Admission Test - Quantitative

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## QUESTION 1

Solve for x : $\mathrm{x} 212 \mathrm{x}=36$
A. 2
B. 3
C. 4
D. 6

Correct Answer: D
The first thing to do in solving the equationx2 $12 x=36$ forxis to rewrite the equation by adding 36 to both sides and then to express the equation in terms of factors: $x 212 x+36=0(x 6) \cdot(x 6)=0$ Solving the equation forxyieldsx=6.

## QUESTION 2

What is the equation of a line that passes through the point $(2,3)$ and has a slope of $-1 / 2$ ?
A. $y=-\frac{1}{2} x+2$
B. $y=-\frac{1}{2} x-2$
C. $y=\frac{1}{2} x+2$
D. $y=\frac{1}{2} x-2$
A. Option A
B. Option B
C. Option C
D. Option D

Correct Answer: B

## QUESTION 3

Evaluate the following derivative:
$\frac{d}{d x}\left(6 x^{4}-4 x^{3}\right)$
A. $24 \times 312 \times 2$
B. $24 \times 3+12 \times 2$
C. $24 \times 312 \times 2$

Correct Answer: C

## QUESTION 4

What is the probability of randomly selecting a ten card from a standard deck of cards?
A. $1 / 52$
B. $1 / 13$
C. $12 / 13$
D. $51 / 12$

Correct Answer: B

To determine the probability that a selected card is a ten, you should first note that a card can be selected from a deck inn= 52 different ways. Since there are four ten cards, one ten for each of the four suits, a ten can be drawn from the deck ins $=4$ different ways. Thus, the probability that the selected card is a ten is:
$p=\frac{s}{n}=\frac{4}{52}=\frac{1}{13}$.

## QUESTION 5

Chemistry students performed nine volume measurements of a solution during a lab and obtained the following results:
$\{2.4 \mathrm{~mL}, 3.2 \mathrm{~mL}, 3.7 \mathrm{~mL}, 3.7 \mathrm{~mL}, 4.5 \mathrm{~mL}, 6.8 \mathrm{~mL}, 7.3 \mathrm{~mL}, 8.1 \mathrm{~mL}, 12.2 \mathrm{~mL}\}$
What is the median of the data set?
A. 3.7 mL
B. 4.5 mL
C. 5.8 mL
D. 9.8 mL

Correct Answer: B
The median is the middle or center value of the data set arranged in ascending numerical order, or 4.5 mL .

## QUESTION 6

Evaluate the following indefinite integral: A. Option A

$$
\int t^{2}\left(\frac{5}{t}-\frac{t}{5}\right) d t
$$

A. $\frac{5 t^{2}}{2}+\frac{t^{4}}{20}+C$
B. $\frac{5 t^{2}}{2}+\frac{t^{4}}{20}-\mathrm{C}$
C. $-\frac{5 t^{2}}{2}-\frac{t^{4}}{20}+C$
D. $-\frac{5 t^{2}}{2}+\frac{t^{4}}{20}+C$
B. Option B
C. Option C
D. Option D

Correct Answer: B

## QUESTION 7

Evaluate the following derivative:
$\frac{d}{d x}\left(25-7 x^{3}\right)$ at $x=-2$
A. 35
B. 84
C. -84
D. 120

Correct Answer: C
You first must calculate the derivative before you can evaluate the derivative at a given point.
$\frac{d}{d x}\left(25-7 x^{3}\right)=-21 x^{2}$.

The derivative can now be evaluated at $x=2$ by plugging in the value of 2 for $x$ in the derivative or

$$
\left.\frac{d}{d x}\left(25-7 x^{3}\right)\right|_{x=-2}=-21 \cdot(-2)^{2}=-21 \cdot 4=-84 .
$$

## QUESTION 8

Express in scientific notation: 13.9
A. $1.39 \times 101$
B. $1.39 \times 101$
C. $13.9 \times 101$
D. $13.9 \times 101$

Correct Answer: B

In scientific notation, the number 13.9 is $1.39 \times 101$.

## QUESTION 9

A. -7
B. 2
C. 6
D. 7

Correct Answer: D

## QUESTION 10

Evaluate the following derivative: A. Option A
$\frac{d}{d x}\left(\frac{15}{3 x^{8}}\right)$
A. $-\frac{40}{x^{9}}$
B. $\frac{40}{x^{9}}$
C. $-\frac{40}{x^{-9}}$
D. $\frac{40}{x^{-9}}$
B. Option B
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C. Option C
D. Option D

Correct Answer: A

## QUESTION 11

Solve for x : $\mathrm{x} 3 \mathrm{64x}=0$
A. $x= \pm 8$
B. $x= \pm 6$
C. $x= \pm 4$
D. $x= \pm 2$

## Correct Answer: A

In order to solve the equationx3 $64 x=0$ forx, you can apply factor analysis and solve for x in each term:

$$
\begin{gathered}
\frac{x^{3}}{x}-\frac{64 x}{x}=\frac{0}{x} \\
x^{2}-64=0 \\
x= \pm 8
\end{gathered}
$$

## QUESTION 12

Evaluate the following definite integral:

$$
\int_{2}^{4}\left(x^{4}-6 x\right) d x
$$

A. 123.6
B. 162.4
C. 183.7
D. 250.2

Correct Answer: B

You begin by solving the integral and then evaluating the result between the limits of 2 and 4 .

$$
\begin{aligned}
\int_{2}^{4}\left(x^{4}-6 x\right) d x & =\left(\frac{x^{5}}{5}-\frac{6 x^{2}}{2}\right)=\left.\left(\frac{x^{5}}{5}-3 x^{2}\right)\right|_{2} ^{4}=\left(\frac{(4)^{5}}{5}-3(4)^{2}\right)-\left(\frac{(2)^{5}}{5}-3(2)^{2}\right) \\
& =\left(\frac{1024}{5}-48\right)-\left(\frac{32}{5}-12\right)=\frac{812}{5}=162.4
\end{aligned}
$$

## QUESTION 13

What is the slope of a line that passes through the points $(3,3)$ and $(3,3)$ ?
A. 3
B. -3
C. 0
D. undefined

Correct Answer: C

The slope of a line that passes through the points $(3,3)$ and $(3,3)$ can be found by:

$$
m=\frac{y_{2}-y_{1}}{x_{2}-x_{1}}=\frac{3-3}{3-(-3)}=\frac{0}{6}=0
$$

## QUESTION 14

The ratio of boys to girls in the graduating class of a school is 3:2. If there are a total of 430 students in the class, how many girls are in the graduating class?
A. 74
B. 86
C. 172
D. 215

## Correct Answer: C

To find the total number of girls in the science class, we must first find the fraction of students in the class who are girls. For every set of 5 students, 2 students are girls, yielding a fraction of $2 / 5$. Thus, the total number of girls in the class is

$$
\frac{2}{5} \times 430=172 .
$$

## QUESTION 15

Evaluate the following derivative

$$
\frac{d}{d x}\left(24 x^{3}-9 x^{2}+3 x-11\right) \text { at } x=3
$$

A. 597
B. 325
C. 154
D. 96

Correct Answer: A

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