## Applied Physics 10th Edition Ewen Test Bank

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Exam

Name

## SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

1) What is the difference between a subscript and an exponent?
2) 

Answer: An exponent is a mathematical operation. A subscript is used to define a variable a specific feature or component of a variable.
2) What is the difference between a formula and a working equation?

Answer: A formula is a basic equation, usually expressed in letters and numbers. A working equation is created when the desired variable is isolated on one side of the equation.
3) What is the purpose of estimation when problem solving?

Answer: Estimating the expected answer in problem solving can serve as a check to make sure the answer is correct.
4) Solve for $m$ in the formula $F=m a$.

Answer: $m=\frac{F}{a}$
5) Solve for $t$ in the formula $s=1 / 2\left(v_{f}+v_{i}\right) t$.

Answer: $\mathrm{t}=\frac{2 \mathrm{~s}}{\mathrm{vf}_{\mathrm{f}}-\mathrm{v}_{\mathrm{i}}}$
6) Solve for vf in the formula $\mathrm{s}=1 / 2\left(\mathrm{vf}+\mathrm{v}_{\mathrm{i}}\right) \mathrm{t}$.
6)

Answer: $\mathrm{v}_{\mathrm{f}}=\frac{2 \mathrm{~s}}{\mathrm{t}}-\mathrm{v}_{\mathrm{i}}$
7) Solve for h in $\mathrm{PE}=\mathrm{mgh}$.
7)

Answer: $\mathrm{h}=\frac{\mathrm{PE}}{\mathrm{mg}}$
8) Given $\mathrm{A}=1 / 2 \mathrm{bh}$, if $\mathrm{b}=10.0 \mathrm{~cm}$ and $\mathrm{h}=12.2 \mathrm{~cm}$, what is A ?
8)

Answer: $A=61.0 \mathrm{~cm}^{2}$
9) A cone has a volume of $315 \mathrm{~cm}^{3}$ and a radius of 7.50 cm . What is its height?
9)

Answer: $\mathrm{h}=5.35 \mathrm{~cm}$
10) A right triangle has a side of 82.4 mm and a side of 19.6 mm . Find the length of the
10) hypotenuse.
Answer: 84.7 mm
11) Given a cylinder with a radius of 14.4 cm and a height of 16.8 cm , find the lateral surface
11) area.

Answer: $A=1520 \mathrm{~cm}^{2}$

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12) A rectangle has a perimeter of 80.0 cm . One side has a length of 28.0 cm . What is the
12) length of the adjacent side?
Answer: 12.0 cm
13) The formula for the volume of a cylinder is $V=\pi r^{2} h$. If $V=4520 \mathrm{~m}^{3}$ and $h=36.0 \mathrm{~m}$, find r .
13)

Answer: $\mathrm{r}=6.32 \mathrm{~m}$
14) The formula for the area of a triangle is $A=1 / 2 \mathrm{bh}$. If $\mathrm{b}=3.12 \mathrm{~m}$ and $\mathrm{A}=82.6 \mathrm{~m}^{2}$, find h .

Answer: $\mathrm{h}=52.9 \mathrm{~m}$
15) A rectangular parking lot measures 80.0 m by 75.0 m . If the parking lot needs three
15) sections that each measure 8.00 m by 8.00 m for tree plantings, how much area is left for parking spaces?
Answer: $A=5810 \mathrm{~m}^{2}$

