Quiz V General Chemistry I Lecture Fall 12 Dr. Hahn 20 pts 10/25 R 8:30 am A quiz\#
 Name $\qquad$ (print name) (sign name)

Please show all work for full credit.

1. principal quantum number is abbreviated $\qquad$ (a letter) and is correlated with the
 numbers in the periodic table.
magnetic quantum number is abbreviated $\qquad$ mIne ( a letter symbol)
spin quantum number is abbreviated $\qquad$ $m_{s}$ (a letter symbol)
( 2 pts each, 8 pts total)
2. For principal quantum number 5 the possible angular momentum quantum number are ( 5 pts )

3. For angular momentum quantum number

3 the possible magnetic quantum number are

4. For the angular momentum quantum number $\ell=0$ the symbol is ( $\mathrm{s}, \mathrm{p}, \mathrm{d}, \mathrm{f}$ ) (circle one) ( Q p ts ) extra credit: 3 pts

Give the electron configuration for the element $P$

$$
1 s^{2}, 2 s^{2}, 2 p^{6}, 3 s^{2}, 3 p^{3}
$$



Quiz V General Chemistry I Lecture Fall 12 Dr. Hahn 20 pts $10 / 25$ R 8:30 am B quiz\# $2-7$


Please show all work for full credit.

1. principal quantum number is abbreviated $\qquad$ (a letter) and is correlated with the period numbers in the periodic table.
spin quantum number is abbreviated $\mathrm{M}_{5}$ (a letter symbol)
2. For principal quantum number 4 the possible angular momentum quantum numbers are ( 5 pts )

3. For angular momentum quantum number

2 the possible magnetic quantum numbers are ( 5 pts )

extra credit: 3 pts
Give the electron configuration for the element S

$$
1 s^{2}, 2 s^{2}, 2 p^{6}, 3 s^{2}, 3 p^{4}
$$

Quiz V General Chemistry I Lecture Fall 12 Dr. Hahn 20 pts 10/25 R 9:55 am A quiz\# $\qquad$
Name
 Name
(print name) (sign name)

Please show all work for full credit.

1. Principal quantum numbers are also called the shell. subshell, orbital) (circle one)
angular morertcem
quantum number is abbreviated $\ell$ is also called the subshell.
magnetic quantum number is abbreviated $M_{\ell}$ ( a letter symbol)
spin quantum number is abbreviated $\mathrm{m}_{S}$ (a letter symbol) (2 pts each, 8 pts total)
2. For principal quantum number 3 the possible angular momentum quantum number are ( 5 pts )

3. For angular momentum quantum number

1 the possible magnetic quantum number are ( 5 pts )

4. For the angular momentum quantum number $\ell=2$ the symbol is ( $\mathrm{s}, \mathrm{p}, \mathrm{d}, \mathrm{f})$ (circle one) ( 2 pts ) extra credit: 3 pts

Give the electron configuration for the element Cl

$$
\begin{gathered}
1 s^{2}, 2 s^{2}, 2 p^{6}, 3 s^{2}, 3 p p^{5} \\
\left(\begin{array}{c}
\text { Partial } \\
\text { (creme }
\end{array}\right.
\end{gathered}
$$

Quiz V General Chemistry I Lecture Fall 12 Dr. Hahn 20 pts $10 / 25$ R $9: 55$ am B quiz\#
 Name $\qquad$ (sign name)

Please show all work for full credit.

1. Principal quantum numbers are also called the shell subshell, orbital) (circle one)

spin quantum number is abbreviated $M_{S}$ (a letter symbol)
magnetic quantum number is abbreviated $M_{Q}$ (a letter symbol) (2 pts each, 8 pts total)
2. For principal quantum number 6 the possible angular momentum quantum numbers are ( 5 pts )

3. For angular momentum quantum number

3 the possible magnetic quantum numbers are ( 5 pts )

4. For the angular momentum quantum number $\ell=3$ the symbol is ( $\mathrm{s}, \mathrm{p}, \mathrm{d}(\mathrm{f})$ (circle one) ( pts) extra credit: 3 pts

Give the electron configuration for the element Si

$$
1 s^{2}, 2 s^{2}, 2 p^{6}, 3 s^{2}, 3 p^{2}
$$



Quiz V General Chemistry I Lecture Fall 12 Dr. Hahn 20 pts 10/25 R 8:30 am A quiz \# $\qquad$
Name $\qquad$ Name $\qquad$ (print name) (sign name)

Please show all work for full credit.

1. principal quantum number is abbreviated $\qquad$ (a letter) and is correlated with the
$\qquad$ numbers in the periodic table.
magnetic quantum number is abbreviated $\qquad$ ( a letter symbol)
spin quantum number is abbreviated $\qquad$ (a letter symbol) (2 pts each, 8 pts total)
2. For principal quantum number 5 the possible angular momentum quantum number are ( 5 pts )
3. For angular momentum quantum number 3 the possible magnetic quantum number are (5 pts)
4. For the angular momentum quantum number $\ell=0$ the symbol is (s, p, d, f) (circle one) (2 pts) extra credit: 3 pts

Give the electron configuration for the element P

Quiz V General Chemistry I Lecture Fall 12 Dr. Hahn 20 pts 10/25 R 8:30 am B quiz \# $\qquad$
Name $\qquad$ Name $\qquad$ (print name) (sign name)

Please show all work for full credit.
2. principal quantum number is abbreviated $\qquad$ (a letter) and is correlated with the
$\qquad$ numbers in the periodic table.
spin quantum number is abbreviated $\qquad$ (a letter symbol) (2 pts each, 8 pts total)
magnetic quantum number is abbreviated $\qquad$ ( a letter symbol)
2. For principal quantum number 4 the possible angular momentum quantum numbers are ( 5 pts )
3. For angular momentum quantum number 2 the possible magnetic quantum numbers are ( 5 pts )
4. For the angular momentum quantum number $\ell=1$ the symbol is (s, p, d, f) (circle one) (2 pts)
extra credit: 3 pts
Give the electron configuration for the element S

Quiz V General Chemistry I Lecture Fall 12 Dr. Hahn 20 pts 10/25 R 9:55 am A quiz \# $\qquad$
Name $\qquad$ Name $\qquad$ (print name) (sign name)

Please show all work for full credit.

1. Principal quantum numbers are also called the (shell, subshell, orbital) (circle one)
$\qquad$ quantum number is abbreviated $\ell$ is also called the subshell.
magnetic quantum number is abbreviated $\qquad$ ( a letter symbol)
spin quantum number is abbreviated $\qquad$ (a letter symbol) (2 pts each, 8 pts total)
2. For principal quantum number 3 the possible angular momentum quantum number are ( 5 pts )
3. For angular momentum quantum number 1 the possible magnetic quantum number are ( 5 pts )
4. For the angular momentum quantum number $\ell=2$ the symbol is (s, p, d, f) (circle one) (2 pts) extra credit: 3 pts

Give the electron configuration for the element Cl

Quiz V General Chemistry I Lecture Fall 12 Dr. Hahn 20 pts 10/25 R 9:55 am B quiz \#__
Name $\qquad$ Name $\qquad$ (print name) (sign name)

Please show all work for full credit.

1. Principal quantum numbers are also called the (shell, subshell, orbital) (circle one)
$\qquad$ quantum number is abbreviated $\ell$ is also called the subshell.
spin quantum number is abbreviated $\qquad$ (a letter symbol)
magnetic quantum number is abbreviated $\qquad$ ( a letter symbol) (2 pts each, 8 pts total)
2. For principal quantum number 6 the possible angular momentum quantum numbers are (5 pts)
3. For angular momentum quantum number 3 the possible magnetic quantum numbers are ( 5 pts )
4. For the angular momentum quantum number $\ell=3$ the symbol is (s, p, d, f) (circle one) (2 pts) extra credit: 3 pts

Give the electron configuration for the element Si

