## Algebraic Expressions Worksheet - 2

1. If 4 is constant and $b$ is variable, then $3 b$ and $b+4$ are variables. Mark True / False.
a) True
2. 5 p has two terms, that is 5 and p. Mark True / False.
a) True
b) False
3. $3 p^{2}+4+2 q^{2}$ is trinomial. Mark True / False.
a) True
b) False
4. $9 p \times 2 q r$ is a binomial. Mark True / False.
a) True
b) False
5. $3 p^{3}+2 p^{2}-5 p+4$ is a polynomial. Mark True / False.
a) True
b) False
6. $2 y^{2}+\frac{5}{y}$ is a polynomial. Mark True / False.
a) True
b) False
7. Coefficient of $z$ in $-5 y z$ is -5 . Mark True / False.
a) True
b) False
8. 7 times of ' $a$ ' is subtracted from 15 can be written as $15-7 a$. Mark True / False.
a) True
b) False
9. Number 5 is added to 4 times the product of $x$ and $y$. What is the algebraic expression?
a) $4 x y$
b) $5+4 x y$
c) $5 x y+4$
d) None of these
10. Identify the like terms from the following.
$5 a^{2} b, 3 a b c, 7 a b^{2},-2 a b c$
a) $5 a^{2} b, 7 a b^{2}$
b) $7 a b^{2}, 3 a b c$
c) $3 a b c,-2 a b c$
d) None of these
11. What is the degree of the below mentioned polynomials?
$p^{2}+7 p^{5}-p^{9}$
a) 2
b) 7
c) 5
d) 9
12. What is the degree of the below mentioned polynomials?
$7+2 x^{3}+3 x y^{3}+7 y^{5}$
a) 3
b) 4
c) 5
d) 0
13. The sum of the coefficients in the terms of $5-2 x^{3}-3 x y^{2}+7 y^{5}$ is $\qquad$ .
a) 7
b) $\quad-7$
c) 5
d) $\quad-5$
14. Simplify: $3 p+2 q-\{p-(2 q-3)\}$
a) $2 p+4 q$
b) $2 p+4 q+3$
c) $\quad 2 p-4 q$
d) $2 p+4 q-3$
15. Simplify: $5 \mathrm{~b}-\{3 \mathrm{~b}-(2-\mathrm{b})-5\}$
a) $\quad$ b-7
b) $b+7$
c) $3 b+7$
d) None of these
16. What is the constant term of below mentioned algebraic expression.
$3 x^{2} y-x y^{2}+5 x y-8$
a) 3
b) 8
c) 5
d) -8
17. Find the value of $5 a^{2}+2 a b^{2}+7$, if $a=-2$ and $b=-3$.
a) 9
b) -9
c) 7
d) 36
18. Evaluate $a x^{2}+b y^{2}-c z^{2}$ for $x=-1, y=1, z=2, a=-2, b=-1$ and $c=2$.
a) 14
b) 11
c) 17
d) -11
19. Subtract $4 x+2 y$ from $6 x-4 y$.
a) $4 x-2 y$
b) $2 x-4 y$
c) $2 x-6 y$
d) $6 x+6 y$
20. If $X=a^{2}-b^{2}$ and $Y=a^{2}+b^{2}$, then find the value of $2 X-Y$.
a) $a^{2}+3 b^{2}$
b) $a^{2}-3 b^{2}$
c) $\quad 2 a^{2}+3 b^{2}$
d) None of these
