

MULTIPLE CHOICE QUESTIONS

Choose the correct alternatives in each of the following :

1.	The degree of polynomia	$a^2b + 6ab^2 + 5a^2b^3$ is				dilpar
	(a) 3	(b) 2	(c)) 5	(d) 1
2.	The value of expression	$\frac{3x^2 - 5}{2 - x}$ for $x = -2$ is				
	(a) $\frac{7}{4}$	(b) 0	(c)	$-\frac{7}{4}$	(d)	infinite
3.	What must be added to $1 - 2x$ to get $-2 + 5x$?					
	(a) $3 - 7x$	(b) -1 + 3x	(c)	7x - 3	(d)	3x + 1
4.	The statement, "4 times a as	number p is added to 3 time	es a n	number q" is expressed	in a	lgebraic expression
	(a) $(4+p)+(3+q)$	(b) $4p + 3q$	(c)	3p + 4q	(d)	None of these
5.	The expression $2z - 5x + 6$	-7y is a				
	(a) binomial	(b) trinomial	(c)	monomial	(d)	cubic polynomial
6.	Coefficient of $-x^2$ in $-5x$	is is				
	(a) -5	(b) 5x	(c)	-5 <i>x</i>	(d)	$-5x^2$
7.	$7x^2y$ is a					
	(a) cubic polynomial		(b)	quadratic polynomia	al	
	(c) linear polynomial		(d)	none of these		
8.	On subtracting $x^2 - y^2$ from $y^2 - x^2$, we get					
	(a) 0	$(b) 2y^2$	(c)	$-2(x^2-y^2)$	(d)	$-2x^{2}$
9.	What must be subtracted from $3x^2y$ to get $-7x^2y$?					
	$(a) 4x^2y$	(b) $10x^2y$	(c)	$-4x^2y$	(d)	$-10x^2y$
10.	If $p = -10$, then the value of $p^2 - 2p - 100$ is					
	(a) 20	(b) - 220	(c)	180	(d)	-20



MENTAL MATHS CORNER

Fill in the blanks :

- A symbol which takes various numerical values is called a
- The terms not having same variable factors are called
- The degree of non-zero constant polynomial is
- Linear polynomial is a polynomial of degree
- A polynomial of degree three is called a
- A binomial has terms.
- The value of $\frac{5-x}{x}$, when x = -2 is
- On subtracting 3xy from –7xy, we get
- must be added to $a^3 b^3$ to get $-2b^3$.
- must be subtracted from $-10ab^2c$ to get $4ab^2c$. 10.



REVIEW EXERCISE

- 1. Write the degree of the following polynomials:
 - (i) $6x^2y 2x^2y^3 xy + 7$ (ii) $xyz x^3 + 6x^2$
- 2. For the polynomial: $9y^2 4x + 7y^3 5$, find
 - (i) its degree
- (ii) number of terms
- (iii) constant term
- (iv) coefficient of x.
- 3. Simplify: $5x^2 + 7 2x + 3x^2 + 4x + 1$
- 4. Find the value of the expression for the indicated value of the variables :

 - (i) $-\frac{2}{3}x^2 + 5x 2$ for x = -3 (ii) $\frac{3a + 2b 5}{a + b}$ for a = 2, b = -1
- 5. Add :
 - (i) $7x^3 + 2x^2 5x 7$ and $-5x^2 + x^3 + 4x 5$

(ii) $3x - x^2 + 1$, 2x and $1 + x^2$

- 6. Subtract:
 - (i) -10x + 8y from 2y 5x
- (ii) $9a^3 7a^2 + 5a + 7$ from $-4a^3 + 5a^2 3a 2$

7. What should be added to
$$7x^2 - 5x + 1$$
 to get $-3x^2 + 4x + 7$?

8. Subtract
$$2x + 6$$
 from the sum of $x^2 + 4x + 6$ and $8 - x^2 + 6x$.

9. What should be subtracted from
$$17x^3 - 8x^2 + 11$$
 to obtain $14x^3 + 8x^2 - 5x + 6$?

10. If
$$P = x^2 + 6$$
, $Q = 3x^2 - x + 2$ and $R = x^2 - 4x$, then find $P + Q - R$.

11. Evaluate:

$$7x-2y+5xy+\frac{1}{3}x^2$$
 for $x=-1$ and $y=2$.