OBJECTIVE TYPE (1 Mark)

Q.1. Which of the following is obtained by subtracting x^2-y^2 from $y^2 - x^2$?

	A	$-2(x^2-y^2)$	B	$2(x^2-y^2)$	C	$-2(x^2+y^2)$	D	$2(x^2+y^2)$

Q.2. The value of $x^2 - 2yx + y^2$ when x = 1, y = 2 is

	A	-1	B	1	C	2	D	-2

Q.3. The area of a rectangle with length $2l^2m$ and breadth $3lm^2$ is

	A	$4l^3m^3$	B	l^3m^3	C	$2l^3m^3$	D	$6l^3m^3$

Q.4. The product of $2pq$, $-5pq^2$ and $-3 p^2q$

	A	$-30p^2q^3$	B	$-30p^3q^3$	C	$30p^3q^3$	D	$30p^2q^2$

Q.5. The value of $64^2 -36^2$

	A	2800	B	2080	C	2050	D	2600

Q.6. The value of $95 \times 103 =$

	A	9600	B	9785	C	9700	D	9000

Q.7. The product of $(2a + 3b) (6a - b)$

	A	$12a^2 -16ab +3b^2$	B	$12a^2 +16ab -3b^2$	C	$12a^2+16b+3b^2$	D	$12a -16ab-3b^2$

Q8. If $96 a = 88^2 - 56^2$, then the value of a is

	A	42	B	46	C	48	D	56

Q9 The algebraic equation $4xy +2yz + 5$ is a ———

	A	Monomial	B	Binomial	C	Trinomial	D	Can't say

Q10 The volume of a rectangle with length, breadth and height as $5x$, $3x^2$ and $7x^4$ respectively is:

	A	$105x^7$	B	$105x^2$	C	$105x^4$	D	$105x$

SECTION B

Fill in the blanks (1) marks)

Q11.	The coefficient of $-xy^2z$ is --------------------
Q12.	In a trinomial there are --------- terms.
Q13.	The like terms have same ------------- factors
Q14.	The product of two monomials is always a ----------------
Q15	If $10 x = 52^2 - 48^2$,then the value of x is ------------------

SECTION C(2 mark)

Q16	Add: $5x^2y + 7xy - 2 xy^2$ and $7x^2y - 6xy - xy^2$
Q17	Evaluate by identity: 103^2
Q18	Simplify and evaluate: $2(x -2y+1) -3(x+y) +7$ for $x =2$ and $y=1$
Q19	Multiply ($3ab^2 -6 ab +13 a$) by $-2a^2b^2$
Q20	Subtract $x^5 +5x^3 y -6 x^2 +8 x y -2$ from $-3x^5 -2x^3 y +5 x^2 -7 x y +9$

SECTION D (3& 4 MARKS)

Q21	Show that $(3p +q)^2 + (3p-q)^2 = 18p^2 + 2q^2$
Q22	Evaluate by using identity: (1) 104^2 (2) 103×97
Q23	Find the product : (1) $(x +3) (x -6)$ (2) $(m + 2n)^2$ (3) $(7x +3y) (2x-5y)$ (4) $(3p - 2q) (3p- 2q)$
Q24	Evaluate by using identity : (1) 102×98 (2) $77^2 - 23^2$ (3) 205×203
Q25.	Show that $(2x-5)^2 +40 x = (2x + 5)^2$

ANSWERS

1.	A	2.	B	3.	D	4.	C	5.	A
6.	B	7.	B	8.	C	9.	C	10.	A
11.	-1	12.	3	13	Algebraic	14	Monomial	15.	40
16.	$12x^2y +x y - 3 xy^2$	17.	10609	18	4	19	$-6a^3 b^4 + 12a^3 b^3 -26a^3 b^2$	20.	$-4x^5 -7x^3 y +11 x^2 - x y+11$
21.	-	22.	10816 9991	23	X^2-3x-9 $m^2+4mn+4n^2$ $14x^2-29xy-15y^2$ $9p^2 -4q^2$	24	9996 5400 41615	25.	

Worksheet-1/Class VIII/ALGEBRAIC EXPRESSIONS & IDENTITIES /BINDU RAJEEV /2020-21