

Q4 : The number of terms in the expression $1.2ab - 2.4b + 3.6a$ is

- (a) 1.2 (b) -2.4 (c) 3.6a (d) 3

Q5 : The expression $x + y - xy$ is

- (a) Monomial (b) Binomial (c) Trinomial (d) Quadrinomial

Q6 : The expression xyz is

- (a) Monomial (b) Binomial (c) Trinomial (d) Zero polynomial

Q7 : Subtract $a - b$ from $a + b$ the result is

- (a) $2a + 2b$ (b) $2a$ (c) $2b$ (d) $2a - 2b$

Q8 : Subtracting $-5y^2$ from y^2 , the result is

- (a) $-4y^2$ (b) $6y^2$ (c) $4y^2$ (d) $-6y^2$

Q9 : The value of expression $5n - 2$, when $n = -2$ is

- (a) -12 (b) 8 (c) 1 (d) -8

Q10 : Factors of the term $15x^2$ in the expression $15x^2 - 13x$ are

- (a) $15, x, x$ (b) $15, -13$ (c) $15x^2, -13x$ (d) 15

SECTION B : SHORT ANSWER TYPE QUESTION (5 MARKS EACH)

QUE 11 : : Solve : $(34m^3n^2 - 51m^2n^3) \div 17mn$

QUE 12 : Add : $p^2qr + pq^2r + pqr^2$ and $-3pq^2r - 2pqr^2$

QUE 13 : Solve : $12x^2y \div 4x + (6x - x)^2$.

QUE 14 : Simplify : $-[7(a - 2b) - 4b]$.

QUE 15 : Find the value if $x = 2$

(i) $4(2x-1) + 3x + 11$

QUE 16 : Find the value of the following expressions at $a = 1$ and $b = -2$:

(i) $a^3 + a^2b + ab^2 + b^3$

QUE 17 : What should be subtracted from $2x^3 - 3x^2y + 2xy^2 + 3y^3$ to get $x^3 - 2x^2y + 3xy^2 + 4y^3$?

QUE 18 : Make formula : A number is 7 more than one-third of itself.

QUE 19 : Make formula : Seven times a number is 12 less than thirteen times the same number.

QUE 20 : Make formula : The sum of twice a number and 4 is 18 less than thrice that number.

SECTION C : LONG ANSWER TYPE QUESTION (10 MARKS EACH):

QUE 21 : The age of Sohan Lal is four times that of his son Amit. If the difference of their ages is 27 years, find the age of Amit.

QUE 22 : The interest received by Karim is 30 more than that of Ramesh. If the total interest received by them is 70, find the interest received by Ramesh.

QUE 23 : Subramaniam and Naidu donate some money in a Relief Fund. The amount paid by Naidu is 125 more than that of Subramaniam. If the total money paid by them is ₹975, find the amount of money donated by Subramaniam.

QUE 24 : In a family, the consumption of wheat is 4 times that of rice. The total consumption of the two cereals is 80 kg. Find the quantities of rice and wheat consumed in the family.

QUE 23 : Simplify : $(10 - 4 \times 2) + (7 \times 3 + 3) \times (23 - 2 \times 4)$

Que 24 : A spring is 30cm long and extends by 5cm for each 100gm weight hung on it .

- (a) What is the spring length when 300gm is hung from it ?
- (b) What is the spring length when n 100gm weights are hung from it ?
- (c) What is the spring length when $n = 4$