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SERIES - 1**IMP SERIES Introduced
by
“CGBSE SUPPORT”****Important Questions
for Chhattisgarh
Board Exam ‘2021’**

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CLASS – 10th**Subject – Mathematics****“Polynomials”****5 Marks Questions.**

- If divisor = $3x^2 - 2x + 2$, quotient = $x + 1$, remainder = 3 then what is the dividend.
- If the area of a rectangle is $45x^2 + 30x$ square meter and its breadth is $15x$ m then what is value of length?
- If $p(x) = x^3 + 3x^2 - 5x + 8$ is divided by the following, then find the remainder with the help of remainder theorem.
 - $g(x) = x - 1$; $p(x) = x^3 + 5x^2 - 5x + 1$
 - $g(x) = x + 1$; $p(x) = 2x^3 + x^2 - 2x + 1$
- Find the value of a when $g(x)$ is a factor of $p(x)$.
 - $g(x) = x + 1$; $p(x) = x^2 + ax + 2$
 - $g(x) = x - 1$; $p(x) = ax^2 - 5x + 3$
 - $g(t) = t - 3$; $p(t) = t^2 + 2at - 2a + 3$
- If a polynomial $f(x)$ is divided by $x^2 - 9$ then remainder is $3x + 2$, what will be the remainder when the same polynomial is divided by $(x - 3)$?
- Factorize:
 - $7x^2 - 2x - 5$
 - $12x^2 - 24x + 12$
 - $\sqrt{3}y^2 + 9y + 6\sqrt{3}$
 - $144x^2 + 24x + 1$
- Zeros of some polynomials of the form $ax^2 + bx + c$ are given below:
Find the factors of the polynomials.
 - (3, 4)
 - (-2, 3)

9. Find the sum and product of zeroes of the following polynomials.

a. $2x^2-7x-9$

b. $-5x^2+3x+4$

10. Is $(x-2)$, a factor of polynomial $p(x) = x^3-3x^2+4x-4$?

11. Factorize the polynomial $6x^2-5x-6$.

'3' Marks Questions:

1. Find the quotient and remainder on dividing $2y^3+4y^2+3y+1$ by $y+1$.

2. Prove that on dividing polynomial $4x^3+3x^2+2x-9$ by $x-1$ the remainder is zero.

3. Divide polynomial $2x^3-3x^2-x+3$ by the polynomial $2x^2-4x+3$.

4. Divide the polynomial $a^3-3a^2b+3ab^2-b^3$ by the polynomial $a-b$.