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Paper prepared by

DevAnoop**Teacher St. Joseph's Convent School Bathinda****Email: devanoop@devanoop.com****Section A MCQ – 1 Mark Each**

- Q.1 The degree of polynomial $5x^2 + 2x - 7 - x^3$ is
(a) 0 (b) 2
(c) 1 (d) 3
- Q.2 What are the zeroes of a zero polynomial?
(a) 0 (b) none
(c) all real numbers (d) none of these
- Q.3 Volume of a cuboid is $2x^2 - 8$. Then possible dimensions are
(a) 2, 2, 2 (b) 2, $(x - 2)$, $(x + 2)$
(c) 2, x^2 , $8x$ (d) 2, x^2 , $-8x$
- Q.4 A cubic polynomial has
(a) Three zeroes (b) two zeroes
(c) One zero (d) at most three zeroes

Section B – 2 Mark Each

Q.5 Factorise: $x^3 + \frac{3}{2}x^2 + \frac{3}{4}x + \frac{1}{8}$.

Section C – 3 Mark Each

- Q.6 if $x^2 + px + q = (x + a)(x + b)$ then factorise $x^2 + pxy + qy^2$.
- Q.7 find the value of $p^3 - q^3$, if $p - q = \frac{5}{3}$ and $pq = \frac{2}{3}$.



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Section B – 4 Mark Each

- Q.8 If $p + q + r = 1$ and $pq + qr + pr = -1$ and $pqr = -1$, find the value of $p^3 + q^3 + r^3$.
- Q.9 If $x + 1$ and $x - 1$ are factors of $rx^3 + x^2 - 2x + 8$ find the value of r and s .

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