

Mathematics

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(Chapter - 2) (Polynomials) (Practice Test 3)

(Class X)

Time: 1 hour 15 minutes

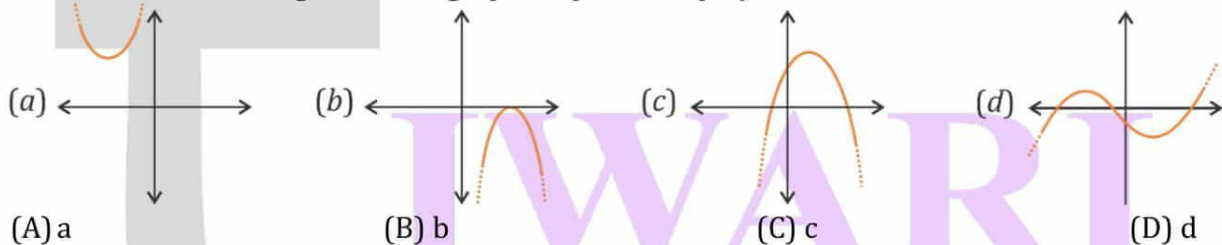
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General Instructions:

- This question paper contains four sections: A, B, C and D. Each part is compulsory.
- Section A has 5 MCQ of one mark each.
- Section B has 3 questions of two marks each.
- Section C has 3 questions of three marks each.
- Section D has 2 questions of five marks each, attempt any 1 out of 2.
- There is no negative marking.

[Section - A]

1. If the zeroes of the quadratic polynomial $ax^2 + bx + c$, $c \neq 0$ are equal, then
(A) c and a have opposite signs
(B) c and b have opposite signs
(C) c and a have same signs
(D) c and b have the same sign
2. If one of the zeroes of a quadratic polynomial of the form $x^2 + ax + b$ is the negative of the other, then it
(A) has no linear term and the constant term is negative
(B) has no linear term and the constant term is positive
(C) can have a linear term but the constant term is negative
(D) can have a linear term but the constant term is positive
3. The number of polynomials having zeroes as 4 and 7 is
(A) 2 (B) 3 (C) 4 (D) more than 4
4. The zeroes of the quadratic polynomial $x^2 + 1750x + 175000$ are
(A) both negative (B) one positive and one negative (C) both positive (D) both equal
5. Which of the following is not the graph of quadratic polynomial?



[Section - B]

6. If $x^3 + 1$ is divided by $x^2 + 5$, then the possible degree of quotient is?
7. If one of the zeroes of the cubic polynomial $x^3 + px^2 + qx + r$ is -1 , then the product of the other two zeroes is?
8. If one of the zeroes of the quadratic polynomial $(k - 1)x^2 + kx + 1$ the value of k is?

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[Section - C]

9. Given that one of the zeroes of the cubic polynomial $ax^3 + bx^2 + cx + d$ is zero, the product of the other two zeroes is?
10. If $4x^2 - 6x - m$ is divisible by $x - 3$, the value of m is exact divisor of?
11. If α, β, γ be zeroes of polynomial $6x^3 + 3x^2 - 5x + 1$, then find the value of $\alpha^{-1} + \beta^{-1} + \gamma^{-1}$.

[Section - D]

12. Form the polynomial whose zeroes are $2 + \frac{1}{\sqrt{2}}, 2 - \frac{1}{\sqrt{2}}$.
13. Verify that the numbers given alongside the cubic polynomial below are their zeros. Also verify the relationship between the zeros and the coefficients.



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Hints and Answers

Section - A

1. c and a have the same sign
2. has no linear term and the constant term is negative
3. more than 4
4. both negative
5. d

Section - B

6. 1
7. $q - p + 1$
8. $\frac{2}{3}$

Section - C

9. 3, 0
10. (A) $\frac{c}{a}$ (B) 9

11. 5

Section - D

12. $2x^2 - 8x + 7$



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