# Class 10 Maths Chapter 2 Polynomials – MCQs with Answers

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**Question 1: What is the degree of the polynomial $x^2 + 5x + 6$?**

**Options:**

(A). 1

(B). 2

(C). 3

(D). 4

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**Question 2: How many zeroes can a quadratic polynomial have at most?**

**Options:**

(A). 1

(B). 2

(C). 3

(D). 4

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**Question 3: What are the zeroes of $x^2 - 5x + 6$?**

**Options:**

(A). 1, 6

(B). 2, 3

(C). -2, -3

(D). 0, 6

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**Question 4: The sum of the zeroes of $ax^2 + bx + c$ is:**

**Options:**

(A). c/a

(B). b/a

(C). -b/a

(D). -c/a

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**Question 5: The product of the zeroes of $ax^2 + bx + c$ is:**

**Options:**

(A). -c/a

(B). c/a

(C). -b/a

(D). b/a

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**Question 6: Which of the following is a quadratic polynomial?**

**Options:**

(A). $3x + 2$

(B). $x^3 + 1$

(C). $x^2 + 4x + 5$

(D). 7

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**Question 7: What is the degree of a constant polynomial?**

**Options:**

(A). 0

(B). 1

(C). 2

(D). Undefined

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**Question 8: Which point represents a zero of a polynomial graph?**

**Options:**

(A). Point on y-axis

(B). Point on x-axis

(C). Origin only

(D). Any point on graph

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**Question 9: Find the sum of the zeroes of $x^2 - 8x + 12$.**

**Options:**

(A). 8

(B). -8

(C). 12

(D). -12

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**Question 10: Find the product of the zeroes of $x^2 - 8x + 12$.**

**Options:**

(A). -12

(B). 8

(C). 12

(D). 20

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**Question 11: Which polynomial has zeroes 2 and 5?**

**Options:**

(A). $x^2 - 7x + 10$

(B). $x^2 + 7x + 10$

(C). $x^2 - 3x + 10$

(D). $x^2 + 3x - 10$

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**Question 12: What is the remainder when a polynomial is exactly divisible by another polynomial?**

**Options:**

(A). 1

(B). -1

(C). 0

(D). 2

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**Question 13: What is the degree of the polynomial $5x^3 + 2x^2 + x$?**

**Options:**

(A). 1

(B). 2

(C). 3

(D). 5

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**Question 14: Which identity is used to expand $(a + b)^2$?**

**Options:**

(A). $a^2 - b^2$

(B). $a^2 + 2ab + b^2$

(C). $a^2 - 2ab + b^2$

(D). $a^2 + b^2$

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**Question 15: Find the zeroes of $x^2 - 9$.**

**Options:**

(A). 3, -3

(B). 9, 1

(C). 0, 9

(D). -9, 3

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**Question 16: Which of the following is not a polynomial?**

**Options:**

(A). $x^2 + 1$

(B). 2x + 5

(C). 1/x + 2

(D). $x^3$ - 7

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**Question 17: What is the sum of the zeroes of $x^2 + 6x + 8$?**

**Options:**

(A). 6

(B). -6

(C). 8

(D). -8

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**Question 18: What is the product of the zeroes of $x^2 + 6x + 8$?**

**Options:**

(A). -8

(B). 6

(C). 8

(D). 14

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**Question 19: Which polynomial has zeroes -1 and -4?**

**Options:**

(A). $x^2 + 5x + 4$

(B). $x^2 - 5x + 4$

(C). $x^2 + 3x + 4$

(D). $x^2 - 3x - 4$

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**Question 20: According to the Division Algorithm, p(x) = ?**

**Options:**

(A). Divisor × Quotient

(B). Quotient + Remainder

(C). Divisor × Quotient + Remainder

(D). Dividend + Remainder

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**Question 21: The graph of a linear polynomial can intersect the x-axis at:**

**Options:**

(A). At most one point

(B). At most two points

(C). At most three points

(D). No point

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**Question 22: Which identity represents the difference of squares?**

**Options:**

(A). $(a+b)^2$

(B). $(a-b)^2$

(C). $(a+b)(a-b)$

(D). $a^2+b^2$

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**Question 23: If the zeroes of a polynomial are 3 and 4, what is their sum?**

**Options:**

(A). 7

(B). 12

(C). 1

(D). -7

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**Question 24: If the zeroes of a polynomial are 3 and 4, what is their product?**

**Options:**

(A). 7

(B). 12

(C). 1

(D). 16

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**Question 25: What is the polynomial formed from zeroes 1 and 6?**

**Options:**

(A). $x^2 - 7x + 6$

(B). $x^2 + 7x + 6$

(C). $x^2 - 6x + 7$

(D). $x^2 + x + 6$

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Answers

1. (B)
2. (B)
3. (B)
4. (C)
5. (B)
6. (C)
7. (A)
8. (B)
9. (A)
10. (C)
11. (A)
12. (C)
13. (C)
14. (B)
15. (A)
16. (C)

17. (B)

18. (C)

19. (A)

20. (C)

21. (A)

22. (C)

23. (A)

24. (B)

25. (A)