



SHIKSHA CLASSES

Sub : Maths
Class : IX

Question Paper
2 : Polynomial

Total Marks : 30
Time : 1 Hour

Section A (Each 1 Marks)

Multiple choice Questions (MCQs).

- Q.1 : Which of the following is quadratic polynomial
a) $x + 2$ b) $x^2 + 2$ c) $x^3 + 2$ d) $x^3(2x + 2)$
- Q.2 : If $x^{51} + 51$ is divided by $(x + 1)$ the remainder is :
a) 0 b) 1 c) 49 d) 50
- Q.3 : If a polynomial $f(x)$ is divided by $x - a$ the remainder is
a) $f(0)$ b) $f(a)$ c) $f(-a)$ d) $f(a) - f(0)$
- Q.4 : Zero of the polynomial $p(x) = cx + d$ is :
a) $-d$ b) $-c$ c) $-\frac{d}{c}$ d) 0
- Q.5 : Degree of the polynomial $p(x) = 4x^4 + 2x^2 + x^5 + 2x + 7$
a) 7 b) 4 c) 5 d) 3
- Q.6 : If $3 + 5 - 8 = 0$, then the value of $(3)^3 + (5)^3 - (8)^3$ is
a) 260 b) -360 c) -160 d) 160
- Q.7 : The value of $\frac{(361)^3 + (139)^3}{(361)^2 - 361 \times 139 + (139)^2}$ is.
a) 300 b) 500 c) 400 d) 600
- Q.8 : If $x + 2$ is a factor of $x^3 - 2ax^2 + 16$, then value of a is
a) 3 b) 1 c) 4 d) 2
- Q.9 : Identify the polynomial
a) $x^{-2} + x^{-1} + 5$ b) $x^2 + 5\sqrt{x} + 7$ c) $\frac{1}{x^3} + 7$ d) $3x^2 + 7$

For question number 10 to 11 two statements are given one labeled Assertion and other labeled Reason select the correct answer to these questions from the codes (a), (b), (c) and (d) as given below

- a) Assertion and Reason both are correct statements and Reason is the correct explanation of Assertion.
- b) Assertion and Reason both are correct statements but Reason is not the correct explanation of Assertion.

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