



D.A.V. PUBLIC SCHOOL, CRRC, Medical Road, Gaya
Sunday Test (Date -17-11-2024)

Class -XI
Sub. – Appl. Maths

Time: 40 Min
F.M.- 20

Section: - A (2 x 5 = 10)

- 1) If $f(x) = x^2$, find the value of $\frac{f(5)-f(1)}{5-1}$.
- 2) If $f(x) = x^3 - 3x + 4$ and $f(x) = f(2x + 1)$ find the value of x .
- 3) Find the domain of $f(x) = \frac{x^2-x+1}{x^2-5x+4}$.
- 4) Find the range of $f(x) = 2 - 3x$, $x \in \mathbb{R}$, $x > 0$.
- 5) Define modulus function and draw its graph.

Section: - B (5 x 2 = 10)

- 6) Find the domain and range of $f(x) = \sqrt{9 - x^2}$.
- 7) Find the domain and range of the function $f(x) = \frac{x-2}{x-3}$.
