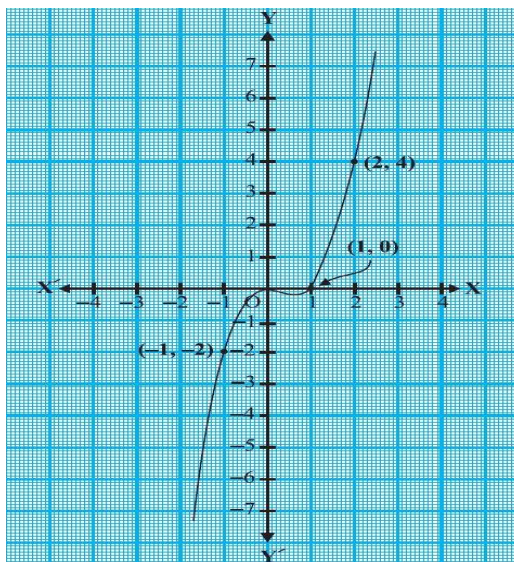*MM20*　　　　*Test - Polynomials class X (2023-24)*　　　*Time 50 Minutes*

Section A – 1 Mark Each

Q1.　　The graph of y = p(x) is given in the figure below, for some polynomial p(x). The number of zeroes of p(x), in this case is/ are _____

(A) 0　　　　　　　(B) 1　　　　　　　(C) 4　　　　　　　(D) 3

Q2.　　Zero of polynomial 3 is _____
　　　(A) 0　　　　　　(B) 1　　　　　　(C) No Real Zero　　(D) Every Real Number

Section B – 2 marks each

Q3.　　Find a quadratic polynomial with $-\dfrac{1}{8}$ as sum of zeroes and $-\dfrac{1}{4}$ as product of its zeroes.

Q4.　　Find all the zeros of $x^3 - 4x$

Section C – 3 marks each

Q5.　　Find the zeros of the quadratic polynomial $x^2 - 5$ and verify the relationship between its zeros and the coefficients

Q6.　　Form polynomials with zeroes $-\dfrac{\sqrt{3}}{5}, \dfrac{\sqrt{3}}{5}$. How many such polynomials are possible?

Section D – 4 marks each

Q7.　　Find the zeros of the quadratic polynomial $x^2 - 16x$ and verify the relationship between its zeros and coefficients. Also find a polynomial with zeroes double the zeroes of given polynomial.

Q8.　　If y and z are zeroes of polynomial $x^2 + x + 1$. Find the value of $y^2 + z^2$

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