Roll Number		

C

INDIAN SCHOOL MUSCAT
SECOND PERIODIC TEST

MATHEMATICS

CLASS: X | Sub. Code: 041 | Time Allotted: 50mts

09.09.2018 | Max. Marks: 20

GENERAL INSTRUCTIONS:

1. All questions are compulsory.
2. Questions 1 to 4 carry TWO marks each.
3. Questions 5 to 7 carry FOUR marks each.

1. Check whether $(x+2)^3 = 2x(x^2-1)$ is a quadratic equation or not. 2

2. If one of the roots of the quadratic equation $x^2 + px - \frac{5}{4} = 0$ is $\frac{1}{2}$, find the other root. 2

3. Find k, if the equation $2kx^2 - 40x + 25 = 0$ has equal roots. 2

4. Solve for x : $3\sqrt{2}x^2 - 5x - \sqrt{2} = 0$ 2

5. Solve the quadratic equation $2x^2 + 14x + 9 = 0$ by the method of completion of squares. 4

6. Find the discriminant of the equation $\frac{2}{x+1} + \frac{1}{x-1} = 1$ and hence find the nature of the roots. Find the roots, if they are real. 4

7. Find two consecutive odd positive integers, the sum of whose squares is 290. 4

End of Question Paper