B

INDIAN SCHOOL MUSCAT
FIRST PERIODIC TEST

MATHEMATICS

CLASS: XI

Sub. Code: 041

Time Allotted: 50 mts.

04.12.2018

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. Find the equation of the line passing through the point P (0, 2) and making an angle of 120° with the positive direction of x-axis.   2

2. If the distance of the point (-4, 2) from the line $3x+4y+k=0$ is 3 units, find the value(s) of k.   2

3. Find the angle between the lines $x+2y-5=0$ and $3x+y-11=0$ 2

4. Reduce the equation $x- \sqrt{3}y-8=0$ to normal form. Also find the perpendicular distance from the origin and the angle between perpendicular and the positive direction of x-axis.   2

5. Find the equations of the lines which pass through (2, 2) and sum of whose intercepts on the axes is 9.   4

6. Find the coordinates of the foot of perpendicular drawn from the point(1,-2) on the line $4x-3y-5=0$ 4

7. Find the equation of a straight line passing through the point of intersection of the lines $2x+y-5=0$ and $x+3y+8=0$ and parallel to the line $3x+4y-7=0$.   4

End of the Question Paper