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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 (2,-3) and making an angle of 120° with the positive direction of x-axis. 2
2. Find the angle between the lines $y-\sqrt{3}x-5=0$ and $\sqrt{3}y-x+6=0$ 2
3. 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
4. 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
5. Find the equation of a straight line passing through the point of intersection of the lines $3x+y-9=0$ and $4x+3y-7=0$ and perpendicular to the line $5x-4y+1=0$. 4
6. Find the equations of the lines which pass through (2, 2) and sum of whose intercepts on the axes is 9. 4
7. Find the coordinates of the foot of perpendicular drawn from the point(-1, 3) to the line $3x-4y-16=0$ 4

End of the Question Paper