SET 1

INDIAN SCHOOL SOHAR
FORMATIVE ASSESSMENT- 3
MATHEMATICS

Date: 11-02-2015 Time: 40mnts
Class: IX Marks: 20

General Instructions:

All questions are compulsory. Section A comprises 3 questions of 1 mark each, Section B comprises 2 questions of 2 marks each, Section C comprises 3 questions of 3 marks each and Section D comprises 1 question of 4 marks.

SECTION A

1. Find the value of x for y = 0 in the equation, y = 2x + 1.
2. What is the equation of the Y – axis?
3. The length of a chord in a circle of diameter 10 cm is 6 cm. Find the distance of the chord from its centre.

SECTION B

4. Determine the point on the graph of the linear equation 2x + 5y = 20 whose abscissa is $\frac{5}{2}$ times its ordinate.
5. If the point (2k-3, k+2) lies on the graph of the equation 2x + 3y + 15 = 0.Find "k"?

SET 2

INDIAN SCHOOL SOHAR
FORMATIVE ASSESSMENT- 3
MATHEMATICS

Date: 11-02-2015 Time: 40mnts
Class: IX Marks: 20

General Instructions:

All questions are compulsory. Section A comprises 3 questions of 1 mark each, Section B comprises 2 questions of 2 marks each, Section C comprises 3 questions of 3 marks each and Section D comprises 1 question of 4 marks.

SECTION A

1. What is the general form of a linear equation in two variables?
2. What is the equation of the X axis?
3. The length of a chord in a circle is 6 cm and its perpendicular distance from the centre is 4 cm Find the radius of the circle .

SECTION B

4. Determine the point on the graph of the linear equation 2x + 5y = 19 whose ordinate is $\frac{3}{2}$ times its abscissa.
5. If the point (2p-3, p+2) lies on the graph of the equation 2x + 3y + 15 = 0.Find "p "?

SECTION C

6. Two circles of radii 5cm and 3cm intersect at two points and distance between their centers is 4cm .Find the length of the common chord.
7. ABCD is a cyclic quadrilateral whose diagonals intersect at E. If $\angle DBC = 70^0$, $\angle BAC = 30^0$, find $\angle BCD$. Further, if AB = BC, find $\angle ECD$.
8. Draw the graph of the linear equation $4x + y = 6$.At what points the graph of the equation cuts the X axis and Y axis.

SECTION D

9. Prove that the angle subtended by an arc at the centre is double the angle subtended by it at any point on the remaining part of the circle.

---- THE END ----

SECTION C

6. Two circles of radii 5cm and 3cm intersect at two points and distance between their centres is 4cm .Find the length of the common chord.

7. PQRS is a cyclic quadrilateral whose diagonals intersect at E. If $\angle SQR = 70^0$, $\angle QPR = 30^0$, find $\angle QRS$. Further, if PQ = QR, find $\angle ERS$.
8. Draw the graph of the linear equation $2x + y = 4$.At what points the graph of the equation cuts the X axis and Y axis.

SECTION D

9. Prove that the angle subtended by an arc at the centre is double the angle subtended by it at any point on the remaining part of the circle.

---- THE END ----