Maths (New Book) - 10th Class Mathematics English Medium Short Question Preparations

Q1. Define complement of a set.

Ans 1:

Q2. Define diameter of a circle.

Ans 1: A chord passing through the centre of the centre of the circle is called a diameter of the circle.

Q3. Find the product of the roots of equation $3x^2-5x+7 = 0$.

Ans 1:

Q4. If $b^2- 4ac < 0$, thenwrite the nature of the roots.

Ans 1: If $b^2- 4ac < 0$, thenthe roots will be imaginary or complex conugates.

Q5. Convert 45.36° to D° M'S" from.

Ans 1:

Q6. What is an arc of a circle ?

Ans 1: Any portion or part of a circle is called an arc of the circle.

Q7. What is sector of circle ?

Ans 1: A sector of a circle is the plane figure bounded by two radii and the intercepted between them.

Q8. If y varies inversely as x and y = 8, when x = 4, find y, when x = 16.

Ans 1:

Q9. Define mean proportional.

Ans 1: If three quantities are related as a : b : : b : c then b is called the mean proportional.

Q10.

Ans 1:

Q11. Define quadrantal angles.

Ans 1: If the terminal side of an angle in standard position falls on x-axis or y-axis, then it is called a quadrantal angle.

Q12. Can any improper fraction be reduced ?

Ans 1: Yes, every improper fraction can be reduced by division to the sum of a polynomial and a proper fraction.

Q13. Define surjective function.

Ans 1:

Q14. Define inverse variation.

Ans 1: If two quantities are related in such a way that when one quantity increases, the other decreases is called inverse variation.

Q15. What is a proper fraction ?

Ans 1:

Q16. What is an identity ?

Ans 1: An identity is an equation, which is satisfied by all the values of the variables involved.

Q17. How a ratio is written ?

Ans 1: If a and b are two quantities of the same kind and b is not zero, then the ratio of a and b is written as
a : b or in fraction

Q18. What is tangent line ?

Ans 1: A tangent to a circle is the straight line which touches the circumference at a single point only.

Q19. What steps are involved in making a discrete frequency distribution ?

Ans 1:

Q20. What is initial side of an angle ?

Ans 1: If we make an angle by rotating a ray from on position to another, when we form an angle in this way, the original position of the ray is called initial side of the angle.
