Question Bank

Class-10th

Questions Regarding Matching

Chapter-1

Q. 1 Match the following:-

1. $\sqrt{3}$		(a) Non-terminating repeating
2. $\frac{17}{8}$		(b) Terminating repeating
3. 2		(c) Irrational number
4. $\frac{17}{6}$		(d) Rational number
1 . → (<i>c</i>)	2. → (b)	$3. ightarrow (\boldsymbol{d}) 4. ightarrow (\boldsymbol{a})$)
		Chapter-3

Chapt

Q. 2 Match the following:-

(Answer:-

1.	$\frac{a_1}{a_2} \neq \frac{b_1}{b_2}$	(a) No solution
2.	$\frac{a_1}{a_2} = \frac{b_1}{b_2} \neq \frac{c_1}{c_2}$	(b) Infinitely many solutions
3.	$\frac{a_1}{a_2} = \frac{b_1}{b_2} = \frac{c_1}{c_2}$	(c) unique solution
4.	sum of three angles of a triangle	(d) 360°

5. sum of four angles of a quadrilateral (e) 180°

(Answer:- $1. \rightarrow (c)$ $2. \rightarrow (a)$ $3. \rightarrow (b)$ $4. \rightarrow (e)$ $5. \rightarrow (d)$) Chapter-4

Q. 3 Match the following:-

1. A quadratic equation $ax^2 + bx + c = 0$ has real roots	(a) $b^2 - 4ac = 0$
2. No real roots	(b) $b^2 - 4ac < 0$
3. Two real and equal roots	(c) $b^2 - 4ac > 0$
 Graphically if two lines intersect at one point then pair of linear equations has/have 	(d) No solutions
 If two lines are parallel then pair of linear equation has/have 	(e) Many solutions
6. If two lines are coincident then pair of linear equations	
has/have	(f) Unique solutions
7. $ax^2 + bx + c = 0$ If $a = 0, b, c \neq 0$	
$b, c \rightarrow \text{Real number}$	(g) Quadratic equation
$8. \qquad ax^2 + bx + c = 0$	
If $a \neq 0$, a , b , $c \rightarrow$ Real number	(h) Liner equation
(Answer:- $1. \rightarrow (c)$ $2. \rightarrow (b)$ $3. \rightarrow (a)$ $4. \rightarrow (f)$	5 . \rightarrow (<i>d</i>) 6 . \rightarrow (<i>e</i>)
7. ightarrow (h) $8. ightarrow (g)$)	

Chapter-5

Q. 4 Match the following:-

		-						
	1.	a, a+d, a+2d,	$a + 3d, \cdots$		(a)	sum of t	he first:	n terms of an A.P.
	2.	$S_n = \frac{n}{2} \left[2a + (a + a) \right]$	[n-1)d]		(b)	General	form of	f an A.P.
	3.	$S_n = \frac{n(n+1)}{2}$			(c)	$a_n = a$	+ (n –	1) d
	4.	n th term of an A	. .Р.		(d)	sum of f	irst n po	ositive integers
	5.	For an AP: 2,7,2	L2, writ	e the nex	t te	rm		(e) 12
	6.	For an AP: 21,1	8,15, v	vrite the i	next	term		(f) 11
	7.	For an AP:-5,-	-1, 3, 7	write ne	xt te	erm		(g) 17
	8.	ls 2, ,4,6, 8, 10 ·	····· an A.P.	?				(h) Not an A.P.
	9.	ls 1, 4, 8, 13 ····	··· an A.P.?					(i) An A.P.
	10.	For an A.P. 3, 1	, —1, —3, …	··· first te	rm			(j) 4
	11.	For an A.P5	, —1, 3, 7 …	··· comm	on o	difference	e	(k) 3
(Ansv	ver:- 1	$a \to (b) \qquad 2. \to (a)$	a) $3. \rightarrow (a)$	<i>t</i>) 4.→	(c)	$5. \rightarrow (g)$) 6 .→	· (e)
	7	$f \to (f) 8 \to (i)$	$9. \rightarrow (h)$ 10	$0 \rightarrow (\mathbf{k})$	11.	$\rightarrow (\boldsymbol{j})$)		
				Chapte	er-6			
Q. 5	Ma	atch the following	:-					
	1.	All squaures are	•••••				(a)	Equilateral
	2.	All tri	angles are S	imilar			(b)	Similar
	3.	2 ÃÎ	^{4 Āî} ^{2 Ãî} bo	th triangl	es a	re	(c)	Congruent
(Ansv	ver:- 1	$\overrightarrow{b} \rightarrow (\overrightarrow{b})^{4\widetilde{A}} 2. \rightarrow (\overrightarrow{a})$	3 Ãî					
Q. 6	Ma	atch the following	:-					
	1.	In a right triangle $AC^2 = AB^2 + C^2$		∑ _c			(a)	$\frac{ar\left(\Delta ABC\right)}{ar\left(\Delta PQR\right)} = \left(\frac{AB}{PQ}\right)^2$
	2.	$\Delta ABC \sim \Delta PQ$					(b) F	Pythagoras theorem
		f Sides of two simi		are in the	s rat	io of	()	,
		• • 9 then area of t	-				(c)	2:3
	4. II	f areas of two simi	lar triangles	are in th	e rat	tio		
	4	: 9 then the sides	of these tra	ingles are	in r	atio:	(d) 1	6:81
		wer:- $1 \rightarrow (\mathbf{b})$						

Chapter-7

Q. 7 Match the following:-

- 1. The distance between the points $P(x_1, y_1,)$ and $Q(x_2, y_2)$ is 2. The coodinates of the mid-points $P(x_1, y_1,)$ and $Q(x_2, y_2)$ are 3. The coordinates of the mid point (-4, 6) and (8, 2) are 4. The distance of the point
 - *P* (*x*₁, *y*₁) from the origin (d) $\left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2}\right)$
- 5. Distance between the points (0, 0) and (0, 0) is

(Answer:- 1. \rightarrow (b) 2. \rightarrow (d) 3. \rightarrow (c) 4. \rightarrow (a) 5. \rightarrow (e)) Chapter-8, 9

Q. 8 Match the following:-

1.	sin 30°	(a)	$\frac{\sqrt{3}}{2}$
2.	$\sin^2 30^\circ + \cos^2 30^\circ$	(b)	$\frac{1}{\sqrt{2}}$
3.	cos 45°	(c)	1
4.	sin 60°	(d)	$\frac{1}{2}$
5.	cos 90 °	(e)	0
6.	sec 45 °	(f)	$\frac{1}{\sqrt{3}}$
7.	tan 30°	(g)	$\sqrt{2}$

 $(\text{Answer:-} 1. \rightarrow (d) \qquad 2. \rightarrow (c) \qquad 3. \rightarrow (b) \quad 4. \rightarrow (a) \quad 5. \rightarrow (e) \quad 6. \rightarrow (g) \quad 7. \rightarrow (f))$

Q. 9 Match the following:-

1.	$\sin^2\theta + \cos^2\theta$	(a)	$1 + \tan^2 \theta$; $0^\circ \le \theta < 90^\circ$
2.	$\csc^2 \theta$	(b)	$1 + \cot^2 \theta$; $0^\circ \le \theta < 90^\circ$
3.	$\sec^2 \theta$	(c)	1
4.	cosec A	(d)	cos A
5.	$\sin(90^\circ - A)$	(e)	$\frac{1}{\sin A}$
6.	$\tan(90^\circ - A)$	(f)	$\frac{1}{\cot A}$
7.	tan A	(g)	cot A
8.	$\sin heta$	(h)	perpendicular (P)
			Base (B)
			3

9. $\tan \theta$	(i)	perpendicular (P)
		Hypotenuse (H)
10. $\cot \theta$	(j)	Hypotenuse (H)
		perpendicular (P)
11. $\csc \theta$	(k)	Hypotenuse (H)
		Base (B)
12. sec <i>θ</i>	(1)	Base (B)
		perpendicular (P)

Chapter-10

Q. 10 Match the following:-

1.	A circle hastangants				(a)	secant
2.	A tangent to a circle touches the circle at		.point		(b)	many
3.	The line which intersects the circle at two point	nts is c	alled		(c)	one
4.	A circle can have of parallel tangents	5.			(d)	Point of contact
	The common point of a tangent to the circle a is called				(e)	many pairs
(Ans	wer: $1 \rightarrow (b)$ $2 \rightarrow (c)$ $3 \rightarrow (a)$ $4 \rightarrow$		$\mathbf{b} \to (\mathbf{d})$)		
	Chapte	er-12				
Q. 1 1	1 Match the following:-					
1.	Area of the sector			(a)	$2\pi r$	
2.	Length of an arc of a sector			(b)	$\frac{\theta}{360^{\circ}} \times$	πr^2
3.	Circumference of a circle			(c)	$\frac{\theta}{360^{\circ}}$ >	$< 2\pi r$
(Ans	wer:- 1. \rightarrow (<i>b</i>) 2. \rightarrow (<i>c</i>) 3. \rightarrow (<i>a</i>)					
	Chapte	er-13				
Q . 12	2 Match the following:-					
1.	Total surface area of a cylinder	(a)	$\pi r^2 h$			
2.	Volume of a cylinder	(b)	2 πrh -	+ 2 πr	.2	
3.	Total surface Area of a cone	(c)	πr^2			
4.	Area of a circle	(d)	$\pi rl + \tau$	τr^2		
(Ans	(Answer:- $1 \rightarrow (b)$ $2 \rightarrow (a)$ $3 \rightarrow (d)$ $4 \rightarrow (c)$)					

Q. 13 Match the following:-	
1. class mark ((a) $l + \left(\frac{f_{1-f_0}}{2f_1 - f_0 - f_2}\right) \times h$
2. mode (b) Upper class limit + lower class limit
	2
	c) mode + 2 (mean)
4. 3 median ((d) $l + \frac{\left(\frac{n}{2} - c \cdot f\right)}{f} \times h$
5. Mean by Direct method ((e) $\bar{x} = a + \frac{\sum f_{id_i}}{\sum f_i}$
6. Mean by assumed mean method ((f) $\bar{x} = \frac{\sum f_{ix_i}}{\sum f_i}$
(Answer:- $1 \rightarrow (b)$ $2 \rightarrow (a)$ $3 \rightarrow (d)$ $4 \rightarrow (d)$	(c) $5. \rightarrow (f) 6. \rightarrow (e)$)
Chapter-	-15
Q. 14 Match the following:-	
A card drawn from a well-shuffled deck of 5	2 cards
1. Probability of getting a king	(a) $\frac{13}{52}$
2. Probability of getting a spade	(b) $\frac{1}{52}$
3. Probability of getting the queen of diamond	(c) $\frac{12}{52}$
4. Probability of getting a face card	(d) $\frac{\frac{32}{6}}{52}$
5. Probability of getting a red face card	(e) $\frac{\frac{52}{2}}{52}$
6. Probability of getting a king of red colour	(a) $\frac{13}{52}$ (b) $\frac{1}{52}$ (c) $\frac{12}{52}$ (d) $\frac{6}{52}$ (e) $\frac{2}{52}$ (f) $\frac{4}{52}$
(Answer:- $1. \rightarrow (f)$ $2. \rightarrow (a)$ $3. \rightarrow (b)$ $4. \rightarrow (c)$	(c) 5. (d) 6. (e) 7. (f))
Q. 15 Match the following:- (Mixed Sample	e Question)

Q. 15 Match the following:- (Mixed Sample Question)

- 1. smallest whole number(a)22. smallest natural number(b)0
- 3. smallest even prime number (c) 1
- 4. sum of three angles of a triangle (d) 180°
- 5. sum of four angles of a quadrilateral (e) 90°
- 6. measure of right angle (f) 360°

(Answer:- $1 \rightarrow (b)$ $2 \rightarrow (c)$ $3 \rightarrow (a)$ $4 \rightarrow (d)$ $5 \rightarrow (f)$ $6 \rightarrow (e)$)

Mark (\checkmark) against correct statement and mark (\times) against wrong (incorrect) statement.

Chapter-1

1. $a = bq + r$ is a part of Euclid's division algorithm.	(√)
2. Euclide's division algorithm is used to compute HCF of two given positive integers.	(√)
3. HCF is the smallest factor of two positive integers.	(\times)
4. HCF is the smallest common factor of two integers.	(√)
5. HCF of two consecutive prime numbers is 2.	(\times)
6. HCF of two consecutive prime numbers is 1.	(√)
7. HCF of 24 and 4 is 4.	(√)
8. Every composite number can be factorised as product of primes.	(√)
9. HCF of 26 and 91 is 7.	(\times)
10. HCF of 26 and 91 is 13.	(√)
11. $\sqrt{5}$ is a rational number.	(\times)
12. $3\sqrt{2}$ is a irrational number.	(√)
13. 6 + $\sqrt{2}$ is a irrational number.	(√)
14. $3\sqrt{2}$ is a rational number.	(\times)
15. L.C.M of two numbers is the smallest common multiple. Chapter-2	(√)
1. The degree of linear polynomial of one variable is 1.	(√)
2. Number of zeroes of $x^2 + 4x + 9$ is 2.	(√)
3. Degree of polynomial $x^2 + 4x^3 + 6x$ is 2.	(\times)
4. The highest power of a variable in the polynomial is called, degee	
of the polynomial.	(\times)
5. $x^2 + 3x + 2$ is a quadratic polynomial.	(✓)
6. Number of zeroes of quadratic polynomial is 3.	(\times)
7. In the polynomial $x^2 - Sx + P$, S is sum of zeroes.	(√)
8. In the polynomial $x^2 - Sx + P$, P is sum of zeroes.	(\times)
Chapter-3	
1. Equation $4x + y = 6$ has no solution.	(\times)
2. Equation $4x + y = 6$ has many solution.	(√)
3. In equation $2x + y = 3$, If $y = 3$ then $x = 0$	(✓)

4. A pair of linear equations in two variables has one and only one solution. (×)

5. If graphical representation of a pair of linear equations in two variable	s are
parallel lines then the system has no solution.	(√)
6. If graphical representation of a pair of linear equations in two variable	S
are coincident lines, Then system has no solution.	(\times)
7. In the pair of linear equations $a_1x + b_1y = c_1$	
$a_1x + b_1y = c_1$ $a_2x + b_2y = c_2$	(√)
If $\frac{a_1}{a_2} \neq \frac{b_1}{b_2}$ then system has unique solution.	(*)
8. If $\frac{a_1}{a_2} = \frac{b_1}{b_2} = \frac{c_1}{c_2}$ then system has no solution.	(\times)
9. If $\frac{a_1}{a_2} = \frac{b_1}{b_2} \neq \frac{c_1}{c_2}$ then system has many solution.	(×)
10. In equation $4x + y = 0$, <i>if</i> $x = 6$ then $y = -4$	(\times)
Chapter-4	
1. A quadratic equation can be used to find the area of a rectangle.	(√)
2. $x + 4 = 0$ is a quadratic equation.	(\times)
3. $x^3 + 4x + 6 = x(x + 2)$ is not a quadratic equation.	(\checkmark)
4. The discreminant of quadratic equation is $D = b^2 - 4ac$	(√)
5. The formula $x = \frac{-b \pm \sqrt{D}}{2a}$ can be used to find roots of a cubic equations	s. (×)
6. 4, -3 are roots of equation $(x - 4)(x + 3) = 0$	(✓)
7. If roots of a quadratic equation are real then $D < 0$	(\times)
8. If roots of a quadratic equation are equal then $D > 0$	(\times)
9. If $D = 0$ then roots of a quadratic equation are real and equal.	(\checkmark)
10. 4 and 3 are roots of the quadratic equation $x^2 - 7x + 12 = 0$.	(\checkmark)
Chapter-5	
1. 2,3,4,5 is not an A.P.	(\times)
2. Common Difference = $a_2 - a_1$ where a_n is n th term of an A.P.	(\checkmark)
3. Common Difference of an A.P: 3,1,-1,-3, is -2.	(✓)
4. $a_n = a + (n - 1)d$ is used to find the n th term of an A.P.	(✓)
5. Common Differance of an A.P. cannot be a negative number.	(\times)
6. 2,4,8,16, is not an A.P	(✓)
7. 10 th term of 2,7,12, is 47	(\checkmark)
8. The Difference between 4 th and 3 rd term is called common difference of	of an A.P (\checkmark)
9. The Common Difference of an A.P can be negative, positive or zero. 10. Sum of first n terms of an A.P. is given by the formula	(√)

$S_n = \frac{n}{2} \left[2a + (n - 1d) \right]$	(√)
11. $a_n = a + (n + 1)d$ is used to find the n th term of an A.P.	(\times)
12. Simple interest = $\frac{P \times R \times T}{100}$	(√)
13. The sum of first <i>n</i> natural number is given by the formula $n(n+1)$	
$S_n = \frac{n(n+1)}{2}$	(✓)
14. In AP: 4,10,16,22 common difference is 6 and first term is 4.	(√)
Chapter-6 1. Two congruent triangles are of same shape and of equal measurement.	(√)
 Two congruent triangles are also similar triangles. 	(√) (√)
3. Squares of equal sides are congruent.	(√)
4. Corresponding angles of similar triangles are equal.	(√)
5. Corresponding angles of congruent triangles are not equal.	(\times)
6. Corresponding sides of similar triangles are proportional.	(√)
7. If $\triangle ABC \sim \triangle DEF$ then $AB = DE$	(\times)
8. In right angled triangle, the hypotenuse is equal to the sum of squares	
of other two sides.	(√)
9. Pythagoras theorem is not applicable to obtuse angle triangle.	(√)
10. The perpendicular is the longest side of the right triangle.	(\times)
11. 7, 24, 25 is not a pythagorian triplet.	(\times)
12. Median of a triangle divides the triangle into three triangles of equal area.	(\times)
13. Median of a triangle divides the triangle into two triangles of equal area.	(√)
14. SAS is not criterion for the congruent triangle.	(\times)
15. SAS criterion of congruent triangles is also called side-angle-side.	(√)
16. Ratio of area of two similar triangles is equal to the ratio of their	
corresponding sides.	(\times)
17. The ratio of the area of two similar triangles is equal to the square of the ratio of their corresponding sides.	(\checkmark)
Chapter-7	(•)
1. Origin is the intersecting point of x-axis and y-axis.	(√)
2. Point (x,0) lies on y-axis.	(\times)
3. Point (2,0) lies on x-axis.	(√)
4. Point (0, 6) lies on y-axis.	(√)
5. Distance of the point (x, y) from the origin is $\sqrt{x^2 + y^2}$	(√)
	\ /

6. A graph can be divided into two quadrants.	(\times)
7. A graph can be divided into four quadrants.	(√)
8. The coordinates of origin are $(0, 0)$.	(√)
9. Abscissa of point (6, 0) in 6.	(√)
10. Ordinate of point $(-7, 4)$ in -7 .	(\times)
11. $\sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$ is called section formula.	(\times)
12. Sides of a isosceles triangles are of equal length.	(√)
13. No Side of a equilateral triangle is equal.	(\times)
14. Each angle of a right triangle is of 90° .	(\times)
15. Each side of an equilateral triangle is of equal length.	(√)
16. Collinear points lie on the same triangle.	(\times)
17. Collinear points lie on the same line.	(\checkmark)
18. Opposite sides of a parallelogram are not equal.	(\times)
19. The formula to find the coordinates of mid-point is $(\frac{x_1+x_2}{2}, \frac{y_1+y_2}{2})$	(\checkmark)
20. $\left(\frac{m_1x_2+m_2x_1}{m_1+m_2}, \frac{m_1y_2+m_2y_1}{m_1+m_2}\right)$ is section formula.	(\checkmark)
Chapter-8	
1. In right angled triangle only one angle is of 90°	(√)
2. Measurement of sides of a triangle is called algebra.	(\times)
3. Trigonometry is called measurement of triangles.	(\times)
4. The relationship between angles and sides is called Trigonometry.	(√)
5. Trigonometry is not used to measure heights and distances.	(\times)
6. In right angled triangle, hypotenuse is the longest side.	(\times)
7. Pythagoras theorem is applied to isosceles triangle.	(\times)
8. Value of $\sin 0^{\circ}$ is 0	(√)
9. Value of tan 30° is $\sqrt{3}$	(\times)
10. $sin(90^{\circ} - \theta) = tan\theta$	(\times)
11. Sum of three angles of a triangle is 180° .	(√)
12. Value of tan A is defined for A= 90°	(\times)
13. $sin(90^{\circ} - \theta) = cos\theta$	(√)
14. $sin^2\theta + cos^2\theta = 1$	(√)
15. $9sec^2A - 9tan^2A = 6$	(\times)

$16.\ 1 + tan^2 A = sec^2 A$	(√)
$17. \frac{\sin 16^{\circ}}{\cos 74^{\circ}} = 1$	(√)
18. cosec $A = \frac{1}{\sin A}$	(✓)
19. $tanA = \frac{1}{cotA}$	(✓)
Chapter-9	
 The line drawn from the eye of an observer to the location of object is called line of sight. 	(√)
 There is not any difference between angle of elevation and angle of depression. 	(×)
 Angle of elevation is above the horizontal level. 	(√) (√)
 Angle of elevation is below the horizontal level. 	(×)
	(×) (√)
	. ,
6. Angle of depression not below the horizontal level.7. If in a right triangle length of base and perpendicular is equal then	(×)
base angle is of 45°	(√)
8. The value of $\sqrt{3}$ is 1.41	(\times)
9. The value of $\sqrt{2}$ is 1.73	(\times)
10. The value of $\sqrt{3}$ is 1.73	(√)
11. The value of $\sqrt{2}$ is 1.41	(√)
12. $sin30^\circ = \frac{1}{2}$	(√)
13. $cos60^\circ = \frac{1}{2}$	(√)
14. If $tan45^\circ = 1$ then $\cot 45^\circ$ is not defined.	(\times)
$15.\frac{\sin 18^{\circ}}{\cos 72^{\circ}} = 2$	(\times)
$\cos 72^{\circ}$ 16. The value of $\sin^2\theta + \cos^2\theta$ is equal to 1	(√)
17. $sec^2\theta - tan^2\theta$ is equal to 2	(×)
18. $tan\Theta \ \theta = \frac{Base}{Hypotenuese}$	(×)
Hypotenuese Chapter-10	()
1. End points of a chord lie on the circle.	(✔)
2. There can be only one point common between two circles.	(x)
3. The circle and its tangents has two common point.	(x)
4. The tangent of circle touches the circle at only one point.	(✔)
5. A circle has two tangents.	(x)
6. A circle has many tangents.	(✔)
7. The diameter of a circle is half of the radius.	(x)
10	

8.	Concentric circles have common centre.	(✔)
9.	The radius of the circle is half of the diameter of the circle.	(✔)
	The diameter of the circle is twice the radius of that circle. The tangent of the circle is perpendicular to radius passing through	(✔)
	point of contact.	(✔)
12.	Angle subtended by the diameter at any point on the circle is of 180 ⁰ .	(×)
13.	Length of tangents drawn from an external point is not equal.	(x)
14.	Perpendicular drawn from the centre of the circle bisects the chord.	(✔)
15. 1.	If diameter of circle is 14cm then its radius will be 7cm. Chapter-11 To find the mid-point of a line, construction can be done with the help of	(✔)
1.	geometrical compass and scale.	(✔)
2.		(✓) (✓)
3.		(×)
	A tangent subtends an angle of 180° with the radius of the circle.	(×)
5. 6.	Tangents drawn from the external point to the circle are of equal length. If scale factor is less than one newly constructed similar triangle will be	(✔)
	of small area.	(✔)
7.	Number of tangents drawn from an external point to the circle is 2.	(✔)
8. 9.	Centre of the circle is the intersecting point of parallel chords. Centre of the circle is the intersecting point of perpendicular bisectors	(x)
	of non-parallel chords.	(✔)
10	. A circle can have more than one centre.	(x)
	Chapter-12	
1.	Area a circle is $2\pi r$	(×)
2.	The radius of circle is twice the diameter.	(×)
3.	The region bounded between an arc and chord is called segmant.	(✔)
4.	Sector is a region between radius and chord.	(\times)
5.	Sector is a region between two radii of circle.	(✔)
6.	The ratio of circumference of the circle to the diameter is called π .	(✔)
7. 8.	The ratio of circumference of the circle to the radius is called π . To compute the length of boundary of a circular park, formula	(×)
	for circumference of the circle is used.	(✔)
9.	Area of the minor segment is larger than the area of sector.	(\times)

10. Area of the major segment is greater then the area of minor segment.	(✔)
11. Area of sector of a circle is $\frac{2\pi r\theta}{360^\circ}$, where θ is the angle between two radii.	(\times)
12. Formula to find the length of an arc of a circle is $\frac{2\pi r\theta}{360^{\circ}}$, where r is	
radiues and $ heta$ is degree measure of the angle subtended at the centre.	(✔)
13. Formula for the circumferene of a circle is $2\pi r$.	(✔)
14. Formula for area of a circle is πr^2 .	(✔)
15. Area of the quadrant of a circle is $\frac{\pi r^2}{4}$.	(✔)
16. Area of the sector of a circle is equal to $\frac{\pi r^2 \theta}{360^{\circ}}$, where as <i>r</i> is radius.	(✔)
Chapter-13	
1. Formula for finding the volume of a cylinder of radius r and height h, is $\pi r^2 h$.	(✔)
2. The volume of a sphere of radius 3 cm is 12π .	(\times)
3. Volume of a cuboid is a^3 .	(\times)
4. Volume of a cube is $l \times b \times h$.	(✔)
5. Area of the roof of cubical room is a^2 , where as <i>a</i> is the length of the	
edge of the cube.	(✔)
6. Any one part of cone is called frustum.	(\times)
7. While removing smaller right circular cone from bigger right circular	
cone, we get a frustum of a cone.	(√)
8. Formula for the volume of cone is $\frac{1}{3}\pi r^2 h$.	(✔)
9. Volume of a cuboid is $l \times b \times h$	(✔)
10. Lateral surface area of a cuboid is 2 $(l+b)h$	(✔)
11. If radius of the sphere is 7cm them its curved surface area is $154 \mathrm{cm}^2$	(\times)
12. The shape of a cap is of a frustum.	(\times)
13. To find the volume of a Road Rollar, formula for the volume of cone is used.	(\times)
14. The shape of the base of a cone is spherical.	(\times)
15. The shape of the base of cone is circular.	(✔)
Chapter-14	
1. Numerical representative is measure of central tendency of a data.	(\times)
2. Mean is not a measure of central tendency.	(×)
3. Mean, median and mode are measure of central tendency.	(✔)
4. Class mark is difference of upper class limit and lower class limit.	(\times)
5. Class mark is half of the sum of upper class limit and lower class limit.	(✔)

	6.				(\times)
	7.	Direct method, step-deviation meth	od a	and Assumed mean method are	
	0	used to calculate mean.			(✔) (×)
		 To compute median, mean and mode continuous of class intervals is necessa 			
	9.	$\bar{x} = \frac{\sum f_i x_i}{\sum f_i}$ is Direct method to compl			(✔)
				Chapter-15	
	1.	When a coin is tossed then maximur			(✓)
	2.	$Probability = \frac{Number of favourable}{Total number of possib}$	e out le ou	comes itcomes	(✓)
	3.	The probability of an impossible eve	nt is	s zero.	(✓)
	4.	When a coin is tossed, probability of	fget	ting head and tail is $\frac{1}{3}$.	(\times)
	5.	The probalility of a sure event is zero	э.		(\times)
	6.	The probability of sure event is 1.			(✓)
	7.	The probability of every event is neg	gativ	e.	(\times)
	8.	Probalilty of an event lies between 0) an	d 1.	(\times)
	9.	The probalilty of an impossible ever	nt ca	annot be calculated.	(\times)
	10.	When a die is thrown once, the prob	babi	lity of getting a number greater	
		than 4 is $\frac{2}{6}$.			(√)
	⁶ 11. When a die is thrown, probability of getting a prime number is $\frac{1}{6}$. (×)				(\times)
	12. The probability of an impossible event is 1. (\times)				(\times)
	13. $P(E) + P(\overline{E}) = 1$ (\checkmark)				(√)
	14.	When a coin is tossed, probability o	fge	tting tail is $\frac{1}{2}$	(✓)
	15.	It is impossible to find the probabili	ty o	f an absent student in the class.	(\times)
		Multiple	ch	oice Questions	
Q 1		Whole number, does not belong to		Chapter-1	
QI	•	(a) Natural number	(b)	Integers	
		(c) Rational number		Real number	
			c .	Answer:- (a) Natural	number
Q 2		Euclid's division algorithm is used to			
		(a) H.C.F (c) Addition	• •	L.C.F Multiplication	
			()	Answer:- (a) H.C.F	
Q 3. Sum of rational and irrational number is					
		(a) Rational number		Irrational number	
		(c) Whole number	(u)	Natural number Answer:- (b) Irrational number	ber
Q 4		Which of the following is a rational r	านm		
		(a) √2	(b)	$\sqrt{3}$	
				13	

	(c) √5	(d) 5	
Q 5.	Which is the following is an i (a) 2 (c) 5	rrational number? (b) 3 (d) $\sqrt{5}$	Answer:- (d) 5
Q 6.	How many factors of a prime (a) Two (c) Four	e number are there ? (b) Three (d) Five	Answer:- (d) √5
Q 7.	What is the HCF of 3 and 9?		Answer:- (a) Two
Q / 1	(a) 3	(b) 6	
	(c) 9	(d) 1	
		.,	Answer:- (a) 3
Q 8.	What is the HCF of 4 and 6?		
	(a) 4	(b) 2	
	(c) 6	(d) 8	
			Answer:- (b) 2
Q 9.	What is the LCM of 4 and 8?)	
	(a) 4	(b) 8	
	(c) 12	(d) 2	
Q 10.	What is the LCM of 3 and 4 ?	,	Answer:- (b) 8
	(a) 3	(b) 4	
	(c) 8	(d) 12	
			Answer:- (d) 12
		Chapter-	2
Q 1.	What is the degree of linear	polynominal ?	
	(a) 2	(b) 1	
	(c) 3	(d) 4	
			Answer:- (b) 1
Q 2.	How many zeroes of a quadr		here (atmost)?
	(a) 1	(b) 2	
	(c) 3	(d) 4	
			Answer:- (b) 2

Q 3.	What is the degree of a qua	dratic polynomial ?	
	(a) 1	(b) 2	
	(c) 3	(d) 4	
			Answer:- (b) 2
Q 4.	If \propto and β are zeroes of qua		$n \propto +\beta =$
	(a) $\frac{c}{a}$	(b) $c + a$	
	(c) $b + a$	(d) $\frac{-b}{a}$	• · · · · · · · · · · · · · · · · · · ·
Q 5.	What is the degree of polyn	omial $P(x) = 5x^3 + x$	Answer:- (d) $\frac{-b}{a}$
٩.5.	(a) 1	(b) 2	-
	(c) 3	(d) 4	
			Answer:- (c)
Q 6.	In quadratic polynomial ax	$a^2 + bx + c$, <i>a</i> is not eq	ual to?
	(a) 0	(b) 1	
	(c) 2	(d) 3	
			Answer:- (a) 0
Q 7.	$x^3 + 2x^2 + 1$ is an example (a) Quadratic polynomial (c) Linear polynomial	e of which type of polyn (b) Cubic polyn (d) biquadratio	omial
Q 8.	What is number of zeroes ir	n the figure?	►x
	(a) 1	(b) 2	
	(c) 3	(d) 0	
			Answer:- (d) 0
		¥У	
Q 9.	What is number of zeroes in	n the figure? ×' ◀ ∖ │ /	×
	(a) 0	(b) 1	
	(c) 2	(d) 3	
		Chapter-3	Answer:- (c) 2
Q 1.	If $\frac{a_1}{a_2} = \frac{b_1}{b_2} = \frac{c_1}{c_2}$ then which equations? (a) An unique solution (c) Infinitely many solution	of the following will be a (b) No solution n (d) None of the	

Q 2. If $\frac{a_1}{a_2} = \frac{b_1}{b_2} \neq \frac{c_1}{c_2}$ then which of the following will be applicable to the pair of linear equations? (a) An unique solution (b) No solutions (c) Infinitely many solution (d) None of these Answer:- (b) No solutions Q 3. If $\frac{a_1}{a_2} \neq \frac{b_1}{b_2}$ then which of the following will be applicable to the pair of linear equations? (a) An unique solution (b) No solutions (c) Infinitely many solution (d) None of these Answer:- (a) An unique solution Q 4. While solving linear pair of equations graphicaly, if lines intersect at a point then which of the following will be applicable to the pair of linear equations? (a) One solution (b) No solutions (c) Many solution (d) Four solutions Answer:- (a) An unique solution Q 5. While solving pair of linear equations graphically, if lines are parallel, which of the following will be a applicable? (a) One solution (b) No solutions (c) Many solution (d) Four solutions Answer:- (b) No solutions Chapter-4 Which of the following is not a method of solving a quadratic equation? Q 1. (a) Factorisation method (b) completing square method (c) Discriminat method (d) Addition method Answer:- (d) Addition method Q 2. $D = b^2 - 4ac$ is used for calculating? (a) Discriminat (b) Factorisation (c) Perfect square (d) Subtraction Answer:- (a) Discriminat Nature of roots of a quadratic equation is not real if: Q 3. (a) *D* < 0 (b) D > 0(c) D = 0(d) D = 2Answer:- (a) D < 0Nature of roots of a quadratic equation is real and equal if: Q4. (a) D < 0(b) D > 0(c) D = 0(d) D = 2Answer:- (c) D = 0Which of the following is a quadratic equation? Q 5. (a) $x^3 - x^2 + 1 = 0$ (b) $x^3 - 5 = 0$ (c) $x^4 - 1 = x^2 + 2$ (d) $x^2 - x + 4 = 0$ **Answer:-** (d) $x^2 - x + 4 = 0$ Which of the following is a quadratic formula? Q 6. (b) $\frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$ (a) -b + 2a(c) $\frac{-a \pm \sqrt{b^2 - 4ac}}{2b}$ (d) $-b \times 2a$ **Answer:-** (b) $\frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$

		Chapter	-5
Q 1.	In AP: 2, 4, 6, 8, which	is the first term?	
	(a) 2	(b) 4	
	(c) 6	(d) 8	
			Answer:- (a) 2
Q 2. I	n AP: 3, 5, 7, 9 , what	is common difference	
	(a) 2	(b) 3	
	(c) 4	(d) 5	
		(0) 0	Answer:- (a) 2
0.2	What is common difference	of an AD: 2 2 2 2	
Q 3.	What is common difference (a) 1	(b) 2	f
	(c) 3	(d) 2 (d) 0	
	.,	.,	Answer:- (d) 0
Q 4.	How many terms are there	in AP: 3,5,7,9,11	?
	(a) 2	(b) 3	
	(c) 5	(d) 7	
			Answer:- (c) 5
5.	What is the last term of an		.?
	(a) 4	(b) 8 (d) 12	
	(c) 1	(d) 12	Answer:- (d) 12
Q 6.	Which is the next term of an	AP: 10,20,30,40	?
	(a) 10	(b) 20	
	(c) 50	(d) 55	Answer: - (c) 50
07	Which is the pout term of a	~ AD: 5 7 0 11 12	
Q 7.	Which is the next term of a (a) 5		f
	(a) 5 (c) 11	(b) 13 (d) 9	
	(-)		Answer:- (d) 9
Q 8.			is 3 then second term will be:-
	(a) 2 (c) 5	(b) 3 (d) 7	
	(c) 5	(u) /	Answer:- (c) 5
Q 9.	What is the next term of an	AP: 5.7.9.11	
Q 9.	(a) 5	(b) 9	
	(c) 13	(d) 15	
-			Answer:- (c) 13
Q 10.			
	(a) Positive (c) Zero	(b) Negative (d) All of the	
		(,	Answer:- (d) All of these
		17	

Q 11.	What is common difference of an A	P:5,3,1,-1	?
	(a) 4	(b) 0	
	(c) -2	(d) 1	
			Answer:- (c) -2
Q 12.	In an AP: $3,5,\Box,9,\ldots$, find t	the missing	term?
	(a) 1	(b) 7	
	(c) 10	(d) 5	
			Answer:- (b) 7
Q 13.	In an AP: 1,2, 3,4, , what	is the 10 th t	erm?
	(a) 2	(b) 3	
	(c) 10	(d) 5	
~	· · · · · · · · · · · · · · · · · · ·		Answer:- (c) 10
Q 14.	In an AP, if 2 nd term is 6 and commo		ce is 4, then first term is
	(a) 4	(b) 2 (d) 8	
	(c) 6	(d) 8	Answer:- (b) 2
Q 15.	What is called a finite A.P. ?		
	(a) Which has finite number of terr	ns (b) Infinite terms
	(c) equal terms	(d) more terms
		Answer:-	(a) Which has finite number of terms
		Chapt	er-6
Q 1.	All equilateral triangles are	-	
	(a) Congruent	(b) Simila	ar
	(c) Equal	(d) Corro	sponding
		-	Answer:- (b) Similar
Q 2.	What does the symbol \cong represents		
	(a) Congruent(c) Equal to	(b) Simila (d) Corro	
			Answer:- (b) Similar
Q 3.	What does the symbol represents?		
	(a) Congruent	(b) Simila	ar
	(c) Equal to	(d) Corro	sponding
			Answer:- (a) Congruant
Q 4.	All squares are		
	(a) Congruent	(b) Simila	
	(c) Equal to	(d) Corro	
0 5	All circle are		Answer:- (b) Similar
Q 5.	(a) Congruent	(b) Simila	ar
	(c) Equal to	(d) Corro	
	(0) _0.00	()	Answer:- (b) Similar
Q 6.	If $\triangle ABC \sim \triangle DEF$ then $\frac{AB}{DE} = \dots$		、 <i>,</i>
-, -,	(a) <i>AB</i>	(b) <i>DE</i>	
	(c) $\frac{BC}{EF}$	(d) $\frac{BC}{AC}$	
	EF	(A) A C	- , , , , , , , , , , , , , , , , , , ,
			Answer:- (c) $\frac{BC}{EF}$

Q 7.	If $\triangle ABC \cong \triangle DEF$ then \angle (a) $\angle D$ (c) $\angle F$	$A = \dots$ (b) $\angle E$ (d) $\angle B$	
			Answer:- (a) ∠ <i>D</i>
Q 8.	How many angles of a right t	riangle is of 90 ⁰ ?	
	(a) 0	(b) 1	
	(c) 2	(d) 3	
0.0			Answer:- (b) 1
Q 9.	How many sides of a isoscele (a) 0	's triangle are equal? (b) 1	
	(a) 0 (c) 2	(d) 3	
	(0) =	(0) 0	Answer:- (c) 2
Q 10.	The side opposite to right an	gle of a right triangle	
	(a) Base	(b) Hypoteni	
	(c) perpendicular	(d) None of t	
		Chanton	Answer:- (b) Hypotenuse
Q 1.	What are the cordinates of o	chapter-7	/
Q 1.	(a) (0,0)	(b) (0, 1)	
	(c) $(1,0)$	(d) $(1, 1)$	
			Answer:- (a) (0, 0)
Q 2.	On which axis point $(x, 0)$ lie		
	(a) y-axis	(b) x -axis	
	(c) on none-axis	(d) both x -axis and	•
Q 3.	On which axis, point $(0, y)$ li	es?	Answer:- (b) x -axis
Q 3.	(a) y-axis	(b) x -axis	
	(c) on none-axis	(d) both x -axis and	y-axis
			Answer:- (a) y-axis
Q 4.	How many quadrants are the	ere in coordinate plan	e?
	(a) 1	(b) 2	
	(c) 3	(d) 4	
			Answer:- (d) 4
Q 5.	In which quadrant, the point	• • •	
	(a) First	(b) Second	
	(c) Third	(d) Fourth	Answer:- (a) First
Q 6.	In which quadrant, the point	t (-2.3) lies ?	Allswell- (a) Thist
~	(a) First	(b) Second	
	(c) Third	(d) Fourth	
			Answer:- (b) Second
Q 7.	In which quadrant, the point		
	(a) First	(b) Second	
	(c) Third	(d) Fourth	Answer:- (c) Third

In which guadrant, the point (2,-3) lies? Q 8. (a) First (b) Second (c) Third (d) Fourth Answer:- (d) Fourth Q 9. The squares formed by intersection of x - axis and y - axis on the XY plane are called (a) Quadrants (b) y - axis(c) x - axis(d) Insecting point Answer:- (a) Quadrants Q 10. Which axis is called a horizontal line? (a) x - axis(b) Quadrants (c) y - axis(d) Intersecting point **Answer:-** (a) x - AxisQ 11. What is the formula to find the distance of a point P(x, y) from the origin? (a) $x^2 - y^2$ (b) $x^2 + y^2$ (c) $\sqrt{x^2 + y^2}$ (d) None of these **Answer:-** (c) $\sqrt{x^2 + y^2}$ **Chapter-8** To which type of triangle the Trigonometery is applied? Q 1. (a) Right Triangle (b) isosceles Triangle (c) Acute Angled Triangle (d) Obtuse Angled Triangle Answer:- (a) Right Triangle Q 2. $\sin\theta$ is equal to? Perpendicular Base (a) (b) Hypotenuse Hypotenuse Perpendicular Hypotenuse (c) (d) Base Base Perpendicular Hypotenuse Answer:- (b) $\cos \theta$ is equal to? Q 3. Base Perpendicular (a) (b) Hypotenuse *Hypotenuse* Perpendicular Hypotenuse (c) (d) Base Base Perpendicular Answer:- (b) Hypotenuse $\tan \theta$ is equal to? Q4. Base Perpendicular (a) (b) Hypotenuse Hypotnuse Perpendicular Hypotenuse (c) (d) Base Base Perpendicular Answer:- (c) Base

Q 5.	$\tan \theta = \dots$ (a) $\frac{\sin \theta}{\cos \theta}$	(b) $\frac{\cos\theta}{\sin\theta}$	
	(c) $\frac{1}{\sin\theta}$	(d) $\frac{1}{\cos\theta}$	Answer:- (a) $\frac{\sin \theta}{\cos \theta}$
Q 6.	$\cot \theta = \dots$ (a) $\frac{\sin \theta}{\cos \theta}$	(b) $\frac{1}{\tan\theta}$	050
	(c) $\frac{1}{\sin\theta}$	(d) $\frac{1}{\cos\theta}$	Answer:- (b) $\frac{1}{\tan \theta}$
Q 7.	What is the value of sin 0^0 ? (a) 0	(b) 1	
	(c) $\frac{1}{2}$	(d) $\frac{1}{3}$	Answer:- (a) 0
Q 8.	What is the value of $\cos 0^{0}$ (a) 0	? (b) 1	
	(c) $\frac{1}{2}$	(d) $\frac{1}{3}$	Answer:- (b) 1
Q 9.	What is the value of $\tan 0^0$? (a) 0	(b) 1	
	(c) $\frac{1}{2}$	(d) $\frac{1}{3}$	Answer:- (a) 0
Q 10.	What is the value of $\tan 45^{\circ}$ (a) 0	? (b) 1	
	(c) $\frac{1}{2}$	(d) $\frac{1}{3}$	Answer:- (b) 1
Q 11.	$sin^2\theta + cos^2\theta =?$ (a) 0	(b) 1	
	(c) 2	(d) 3	
0 12	$\tan (90^0 - \theta) = ?$		Answer:- (b) 1
ير 22.	(a) $\sin \theta$	(b) cos <i>θ</i>	
	(c) cot θ	(d) tan <i>θ</i>	Answer:- (c) $\cot \theta$

Q 13.	sin $(90^0 - \theta) = ?$ (a) sin θ	(b) cos <i>θ</i>
	(c) $\cot \theta$	(d) $\tan \theta$
Q 14.	What is the value of $\sin 30^{\circ}$	Answer:- (b) cos θ ?
~ - · ·	(a) 0	(b) 1
	(c) $\frac{1}{2}$	(d) $\frac{1}{\sqrt{2}}$
	2	Answer:- (c) $\frac{1}{2}$
Q 15.	What is the value of $\cos 60^{\circ}$	2
	(a) 0	(b) 1
	(c) $\frac{1}{2}$	(d) $\frac{1}{\sqrt{2}}$
		Answer:- (c) $\frac{1}{2}$
Q 16.	What is the value of $2 sin^2 A$	
	(a) 0	(b) 1
	(c) 2	(d) 3
o 47		Answer:- (c) 2
Q 17.	As degree of θ increases, the (a) Decreses	e value of sin θ (b) Increases
	(c) Remains the same	
		Answer:- (b) Increases
Q 18.	As degree of θ increases, the	e value of $\cos \theta$
	(a) Decreses	(b) Increases
	(c) Remains the same	
		Answer:- (a) Decreses
		Chapter-9
Q 1.		he obsever to the location of the object is called
	(a) Line of sight(c) angle of elevation	(b) Horizontel line (d) angle of depression
	(c) angle of elevation	(d) angle of depression Answer:- (a) Line of sight
Q 2.	The angle above the horizon	
	(a) angle of elevation	(b) angle of depression
	(c) Line of sight	(d) Right angle
Q 3.	Name the angle between lin	Answer:- (a) angle of elevation e of sight and horizontal line when line of sight is below the
ų J.	horizontal line ?	
	(a) Acute angle	(b) Right angle
	(c) angle of depression	(d) angle of elevation
		Answer:- (c) angle of depression

			Chapter-10
Q 1.	Circle and sphere are the two name	s of	same shape.
	(a) yes	(b)) No
	(c) Two dimensional shapes	(d)) Three dimensional shape
			Answer:- (b) No
Q 2.	A Circle is a collaction of all points		
	(a) In a plane	• •) On a line
	(c) On a ray	(d)) On a Triangle
			Answer:- (a) In a plane
Q 3.	How many tangents a circle can hav		
	(a) 0) 1
	(c) Infinite	(d)) 5
		_	Answer:- (c) Infinite
Q 4.	On how many points a tangent may		
	(a) finite	• •) one
	(c) two	(d)) three
0 5			Answer:- (b) one
Q 5.	What is a line called, intersecting a		-
	(a) tangent	• •) secant
	(c) horizontal line	(d)) lateral line
0.6			Answer:- (b) secant
Q 6.	How many parallel tangents can be		
	(a) One	• •) Infinite
	(c) Three	(u)) Four Answer:- (b) Infinite
Q 7.	A common point of a circle and its ta	ango	
Q7.	(a) Point	-) Perpendicular
	(c) Point of contact	• •) and point
		(4)	Answer:- (c) Point of contact
Q 8.	How many radii are there in a circle	?	
~ 0.	(a) No one) Three
	(c) Two	• •) Infinite
		()	Answer:- (d) Infinite
Q 9.	How many tangents can be there or	nap	
	(a) Infinite	-) one
	(c) two	• •) three
			Answer:- (b) one
Q 10.	What is the length of the tangents of	draw	wn from an external point to the circle?
	(a) equal	(b)) Not equal
	(c) one cm	(d)) One meter
			Answer:- (a) equal
Q 11.	How many centre(s) are there of tw		oncentric circles?
	(a) only one centre	(b)) two centre
	(c) different centre	(d)) No centre
			Answer:- (a) only one centre
Q 12.	A tangent to the circle at the point of		
	(a) perpendicular	• •) diameter
	(c) median (d) m	id-p	
			Answer:- (a) only one centre

Q 13.	How many circle can pass th (a) One (c) None	rough three no (b) Two (d) Infinite	
			Answer:- (a) one
Q 14.	A diameter isto the		
	(a) twice	(b) thrice	
	(c) four times	(d) equal	
			Answer:- (a) twice
Q 15.	If radius of a circle is 5cm. th	ien diameter w	vill be
	(a) 8 cm	(b) 5 cm	
	(c) 10 cm	(d) 12 cm	
			Answer:- (c) 10 cm
		Ch	apter-12
Q 1.	Area of a circle is equal to		
	(a) 2 <i>πr</i>	(b) $2\pi rh$	
	(c) πr^2	(d) $\pi r l$	
			Answer:- (c) πr^2
Q 2.			
	(a) πr^2	(b) 2 <i>πr</i>	
	(c) $l \times b$	(d) 2 <i>πrh</i>	
			Answer:- (b) $2\pi r$
Q 3.	The perimeter of circle is cal	led	
	(a) Circumference	(b) Area	
	(c) lateral surface area	(d) diameter	r
			Answer:- (a) Circumference
Q 4.	The ratio of circumference t	o the diameter	r of a circle is
	(a) 2:3	(b) π	
	(c) 2:1	(d) 1:2	
			Answer:-(b) π
Q 5.	What is area of sector of a c		
	(a) $\frac{\pi r \theta}{122}$	(b) $\frac{\pi r^2 \theta}{360}$	
	(c) $2\pi r$	(d) πr^2	
	(0) 2111	(0) 111	$\pi r^2 \theta$
			Answer:- (b) $\frac{\pi r^2 \theta}{360}$
Q 6.	Formula for the length of an	arc of a circle	?
	(a) $\frac{\pi r^2 \theta}{360}$	(b) 2 <i>πr</i>	
	(c) πr^2	(d) $\frac{\pi r \theta}{180}$	
		(u) $\frac{180}{180}$	770
			Answer:- (d) $\frac{\pi r \theta}{180}$
Q 7.	Which of the following is 3D	shape?	100
	(a) circle	(b) rectangle	e
	(c) sphere	(d) square	
			Answer:- (c) sphere
Q 8.	Which is the longest-chord o	of a circle?	
	(a) Raduis	(b) diamete	r
	(c) centres	(d) tangent	
		_	Answer:- (b) daimeter

Q 9.	How many chords are there (a) 1 (c) centres	of a circle? (b) daimeter (d) infinite	Answer:- (d) infinite
Q 10.	How many chords are there	of a circle?	
	(a) 1	(b) 2	
	(c) 3	(d) 4	
			Answer:- (b) 2
Q 11.	Part of a circle bounded by o	chord and arc c	of a circle is called
	(a) segment	(b) sector	
	(c) diameter	(d) centre	
0 12	A sector is bounded betwee	'n	Answer:- (a) segment
Q 12.	(a) two chord	(b) chord an	d diameter
	(c) two diameter	(d) two radii	
			Answer:- (d) two radii
Q 13.	The larger segment of a circ (a) major segment	(b) minor se	ament
	(c) chord	(d) centre	gineit
			Answer:- (a) major segment
Q 14.	What is the alternative name		
	(a) centre	(b) Radius	
	(c) arc segment	(d) line Answ	er:- (c) arc segment
			apter-13
Q 1.	Write the formula for volum	•	,
	(a) $4\pi r^2$	(b) $2\pi r^2$	
	(c) $5\pi r^2$	(d) $\frac{4}{3}\pi r^{3}$	
			Answer:- (d) $\frac{4}{3}\pi r^3$
Q 2.	The volume of an object is:		
	(a) Area (c) diamotor	(b) capacity	
	(c) diameter	(d) Height	Answer:- (b) capacity
Q 3.	Total surface area of a cubo	id is:	
	(a) $4a^2$	(b) 6 <i>a</i>	
	(c) $2(l \times b + b \times h + h \times h)$	l) (d) (l	(x + b)
Q 4.	Write the formula for volum	e of a cylinder	Answer:- (c) $2(l \times b + b \times h + h \times l)$
५ न∙	(a) $\frac{1}{3}\pi r^2 h$	(b) 2π	
	(c) πr^2	(d) $\pi r^2 h$	
	. ,		Answer:-(d) $\pi r^2 h$

Q 5.	Write the formula for (a) $\pi r l$ (c) $2\pi r$	urved surface area of a cone (b) $\frac{1}{3}\pi r^2 h$ (d) $\pi r^2 h$ Answer:-(a) πrl
Q 6.	Lateral surface area of (a) $\pi r^2 h$ (c) $\pi r l$	a cylinder (b) $2\pi rh$ (d) $\frac{1}{3}\pi r^2h$
Q 7.	Formula for the volum (a) $\pi r^2 h$ (c) $\pi r l$	(b) $2\pi rh$ (d) $\frac{1}{3}\pi r^2h$
Q 8.	Lateral surface area of (a) $l \times b \times h$ (c) $4 \times (side)^2$	Answer:- (d) $\frac{1}{3}\pi r^2 h$ a cube (b) $2 \times h \times (l + b)$ (d) $6 \times (side)^2$ Answer:- (c) $4 \times (side)^2$
Q 9.	(a) $(Edge)^2$	the volume of a cube?
Q 10.	How many heights of a	
	(a) 1	b) 2
	(c) 3	d) 4
		Answer:- (a) 1
Q 1.	In a class-interval the s (a) upper limit (c) size of class intern	
Q 2.	In a class-interval, the (a) lower limit (c) mean	Answer:- (b) lower limit arger number in class internal is called (b) upper limit (d) median
Q 3.	Formula for the mean (a) $\pi r^2 h$ (c) $\frac{\sum f_i x_i}{\sum f_i}$	Answer:- (b) upper limit (b) upper limit - lower limit (d) $\frac{x+1}{2}$ Answer:- (c) $\frac{\sum f_i x_i}{\sum f_i}$
Q 4.	What is the size of class (a) upper limit - lower (c) $\frac{\sum f_i x_i}{\sum f_i}$	s internal ?

Q 5. Formula for mode $(n+1)^{th}$

(a)
$$\left(\frac{h+1}{2}\right)$$
 term
(c) $l + \left[\frac{f_1 - f_0}{2f_1 - f_0 - f_2}\right] \times h$

(b)
$$\frac{\sum f_i x_i}{\sum f_i}$$

(d) $l + \left(\frac{\frac{n}{2} - c.f}{f}\right) \times h$
Answer:- (c) $l + \left[\frac{f_1 - f_0}{2f_1 - f_0 - f_2}\right] \times h$

Q 6. Formula for median
(a) mean of
$$\left(\frac{n}{2}\right)^{th}$$
 and $\left(\frac{n+1}{2}\right)^{th}$ term
(c) $l + \left[\frac{fi+xi}{2f_1 - f_0 - f_2}\right] \times h$

(b)
$$\frac{\sum f_i x_i}{\sum f_i}$$

(d) $l + \left(\frac{\frac{n}{2} - c.f}{f}\right) \times h$
Answer:- (d) $l + \left(\frac{\frac{n}{2} - c.f}{f}\right) \times h$

- Q 7. What is mode of 2, 5, 3, 1, 3,7, 3?
 - (a) 1 (b) 2
 - (c) 3 (d) 4

Q 8. What is mean of 2, 3, 4, ?

(a) 2	(b) 3
(c) 4	(d) 1

Answer:-(b) 3

- Q 9. What is median of 2, 3, 5, 7, 9?
 - (a) 2 (b) 3
 - (c) 5 (d) 9

Answer:- (c) 5

- Q 10. Mode is the number
 - (a) which occures maximum times (b) which occures minimum times (c) occurs once
 - (d) none of these

Answer:- which occures maximum times

Q 11. Mode + 2 Median =?

- (a) Mode (b) 3 Median
- (c) Mean (d) none of these

Answer:- (b) 3 Median

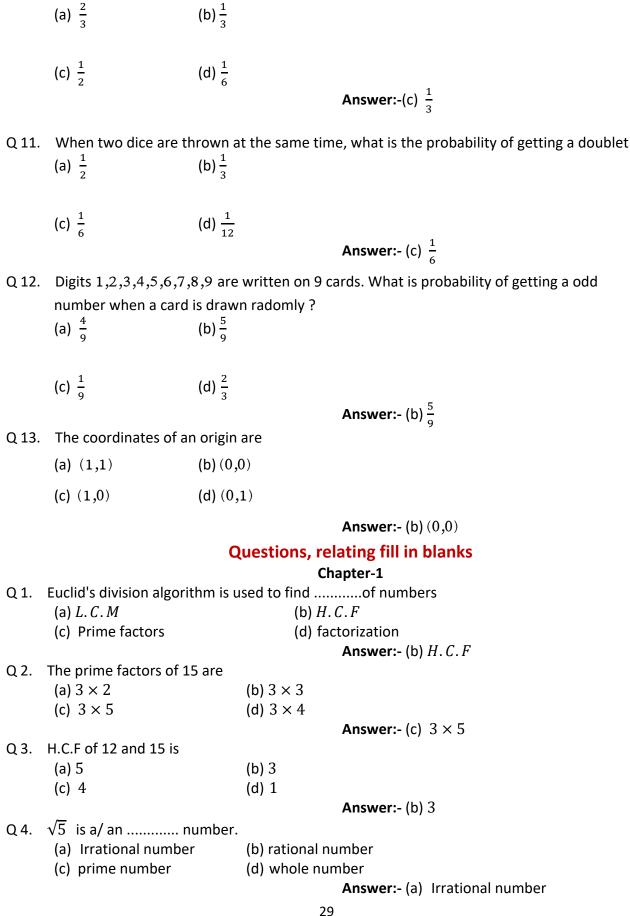
Chapter-15

- Q 1. $P(E) + P(not E) = \dots \dots$
 - (a) 0 (b) 1
 - (c) 2 (d) 4

Answer:- (b) 1

Q 2.	Probability of an eve	ent that cannot hapen	is
	(a) 0	(b) 1	
	(c) 2	(d) 3	
			Answer:- (a) 0
Q 3.	Probabilty of sure ev	vent	
	(a) 0	(b) 1	
	(c) 2	(d) 3	
			Answer:- (b) 1
Q 4.	The probabilty of an	event is greater than	or equaland less than or equal to
	(a) 1,2	(b) 2, 3	
	(c) 0, 1	(d) 1, 1	
			Answer:- (a) 0, 1
Q 5.	-		obability of getting a head or a tail
	(a) $\frac{1}{1}$	(b) $\frac{2}{3}$ (d) $\frac{1}{2}$	
	(c) $\frac{0}{1}$	(d) $\frac{-}{2}$	Answer $(d)^{1}$
Q 6.	How many cards are	there in a deck of play	Answer:- (d) $\frac{1}{2}$ ying card
	(a) 13	(b) 26	
	(c) 52	(d) 39	
			Answer:- (c) 52
Q 7.	No. of cards of black	colour in a deck of pla	aying card are
	(a) 4	(b) 8	
	(c) 13	(d) 26	
			Answer:- (d) 26
Q 8.		colour in a deck of play	ring card are
	(a) 4	(b) 8	
	(c) 12	(d) 26	
			Answer:- (d) 26
Q 9.		a deck of playing card a	are
	(a) 12	(b) 16	
	(c) 26	(d) 52	
			Answer:- (a) 12

Q 10. When a die is thrown, probability of getting a composite number is



Q 5. 3 is a/an number. (a) Irrational number (b) perfect square (c) rational number (d) least prime number Answer:- (c) rational number Q 6. Product of two numbers = (a) $HCF \times HCF$ (b) $HCF \times LCM$ (c) $LCM \times LCM$ (d) $HCF \times 1$ **Answer:-** (b) $HCF \times LCM$ 07. Rational form of 0.3 is (a) $\frac{3}{10}$ (c) $\frac{30}{10}$ (b) $\frac{3}{100}$ (d) $\frac{3}{1000}$ **Answer:-** (a) $\frac{3}{10}$ In a rational number $x = \frac{p}{q}$, in which q is a prime factor in the form ofthen decimal Q 8. form of x will be terminating (a) $2^n 3^m$ (b) $2^n 7^m$ (c) $2^n \cdot 5^m$ (d) $3^m \times 5^n$ **Answer:-** (c) $2^n.5^m$ The decimal form of a rational number $\frac{17}{8}$ will be Q 9. (a) Terminating (b) Non terminating (c) Not possible (d) Not difined Answer:- (a) Terminating Q 10. If $x = \frac{p}{q}$ is a rational number and the prime factorisation of q is not ni the form $2^n \cdot 5^m$, (a) Terminating (b) Non-terminating (c) Not- defined (d) None of these Answer:- (b) Non- terminating Q 11. Number 7 \times 11 \times 13 + 13 is (a) composite number (b) prime number (c) perfect square (d) square number Answer:- (a) composite number Chapter-2 Q 12. Which of the following is a guadratic polynomial? (a) $ax + b, a \neq 0$ (b) $ax^2 + bx + c, a \neq 0$ (c) $ax^3 + bx^2 + cx + d, a \neq 0$ (d) axAnswer:-(b) $ax^2 + bx + c$, $a \neq 0$ Q 13. A quadratic polynomial has maximum....zeroes (a) 2 (b) 1 (d) 4 Answer:- (a) 2 (c) 3 Q 14. Sum of the zeroes of a quadratic polynomial = $-\frac{m}{a}$ (a) c (b) a (d) None of these (c) *b* Answer:- (c) b

Q 15.	The product of zeros (a) <i>c</i> (c) <i>b</i>	of a quadratic polyno (b) <i>a</i> (d) 1	mial = $\frac{m}{a}$ Answer:-(a) c
Q 16.	In a quadratic polyno (a) One (c) Three	omial, highest power c (b) Two (d) Four	of the variable is Answer:- (b) Two
Q 17.	In the given graph of	polynomial $y = p(x)$), number of zeros is \int_{y}^{y}
	(a) 1	(b) 2	x' 🔶 X
	(c) 3	(d) 4	♥y' Answer:-(a) 1
			ФУ
Q 18.	In the given graph of	polynomial $y = p(x)$), number of zeros are ×' •
	(a) 2	(b) 3	, ∳y.
	(c) 4	(d) 1	
			Answer:- (c) 4
19.	In the given graph of	polynomial $y = p(x)$), number of zeros are
	(a) 1	(b) 2	x' 🔶 X
	(c) 3	(d) 4	y'
			Answer:- (b) 2
0.20	In the given granh of	nolynomial $y = p(x)$), number of zeros are
Q 20.	(a) 1	(b) 2	
	(c) 0	(d) 3	
		(0) 2	Answer:- (c) 0
Q 21.	Equation $x (2x + 3)$ (a) linear equation (c) Cubic equation	(b) quadratic	equation
Q 22.	In quadratic equatio (a) 2 <i>ac</i> (c) 4 <i>ac</i>	n $ax^2 + bx + c = 0$, (b) $3ac$ (d) ac	formula for the discriminent $D = b^2$
Q 23.	(a) <i>D</i> > 0	$ax^{2} + bx + c = 0$, h (b) $D < 0$ (d) $D = 1$	Answer:- (c) $4ac$ has two different- real roots if
	(0) D = 0	(u) D - 1	Answer:- (a) $D > 0$

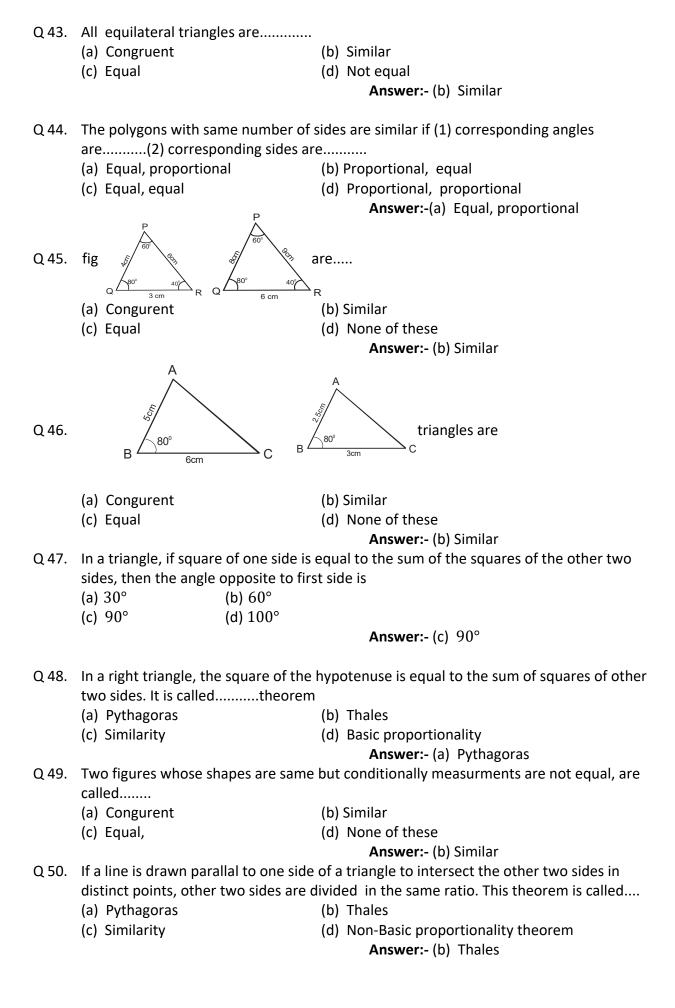
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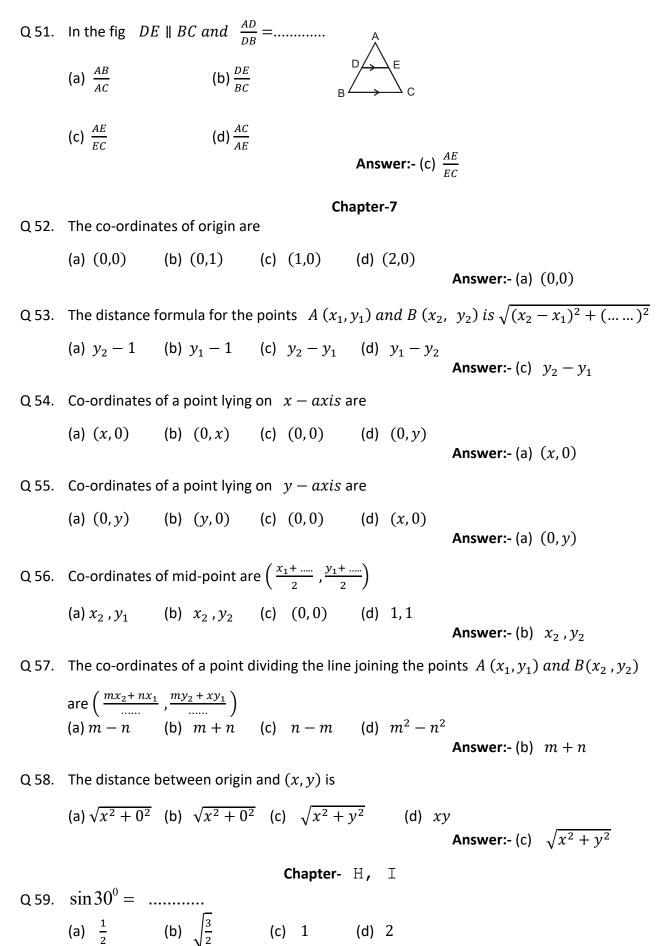
0.04		•						
Q 24.		$c_1 = 0$, $a_2 x + b_2 y + c_2 = 0$ is called (b) pair of linear equation in two variables (d) pair of equation of four degree Answer:- (b) pair of linear equation in two variables						
Q 25.	5. What does relation $\frac{a_1}{a_2} \neq \frac{b_1}{b_2}$ of coefficients of linear pair of equations.							
	$a_1 x + b_1 y + c_1 = 0$, and $a_2 x + b_1 y + c_1 = 0$	$b_2 y + c_2 = 0$ implies						
	(a) Intersecting lines(c) co-incident lines	(b) parallal lines (d) none of these						
	a b c	Answer:- (a) Intersecting lines						
Q 26.	What does relation $\frac{a_1}{a_2} = \frac{b_1}{b_2} \neq \frac{c_1}{c_2}$	show for the linear pair						
	$a_1x + b_1y + c = 0, a_2x + b_2y + c_3x + b_3x + $							
	(a) Intersecting lines	(b) parallal lines						
	(c) co-incident lines	(d) none of these						
		Answer:- (b) parallal lines						
Q 27.	In pair of linear equations the relation	on $\frac{a_1}{a_2} = \frac{b_1}{b_2} = \frac{c_1}{c_2}$ between the						
	coefficients a_1 , b_1 , c_1 and a_2 , b_2 ,							
	(a) Intersecting lines	, (b) parallal lines						
	(c) co-incident lines	(d) none of these						
		Answer:- (a) Intersecting lines						
Q 28.	If graph of the lines $a_1x + b_1y +$ then its solutions are	$c_1 = 0$ and $a_2x + b_2y + c_2 = 0$ are coincedent						
	(a) only one solution	(b) infinitely many						
	(c) no solutions	(d) two solutions						
		Answer:- (b) infinitely many						
Q 29.	The equations $3x - 5y = 20$, $6x$	-10y = 40 hassolutions						
	(a) many solution	(b) one solution						
	(c) no solution	(d) only two solution						
		Answer:- (a) many solution						
Q 30.	For the equations $x - 3y - 3 = 0$,	3x - 9y - 2 = 0, graph shows						
	(a) intersecting lines	(b) parallal lines						
	(c) coincedent lines	(d) none of these						
		Answer:- (b) parallal lines						
Q 31.	For unique solution of linear equation	ons $4x + Py + 8 = 0$, $2x + 2y + 2 = 0$ we get						
	(a) $P = 4$	(b) $P \neq 4$						
	(c) $P = 3$	(d) $P \neq 3$						
		Answer:- (b) $P \neq 4$						
		Chapter-4						
Q 32.	Quadratic equation $ax^2 + bx + c$	= 0, has two equal and real roots if						
	(a) $D > 0$ (b) $D < 0$							

(a) D > 0(b) D < 0(c) D = 0(d) D = 2

Answer:- (c) D = 0

Q 33.	The real roots of qua (a) $D > 0$ (c) $D = 0$	(b) $D < 0$	ese	
Q 34.				Answer:- (b) $D < 0$ he quadratic formula is $x =$
	$\frac{\pm \sqrt{b^2 - 4ac}}{2a}$ (a) $-b$			
		(b) <i>b</i>		
	(c) <i>a</i>	(d) -a		Answer:- (a) $-b$
			F	
			Chap	oter-5
Q 35.	Fomula for the n^{th}		$a_n = a$	$a + (\dots)d$
		(b) $n - 1$ (d) n^2		
	(c) $n + 1$	(u) <i>n</i>		Answer:- (b) $n-1$
Q 36.	Write the missing te	rm of an AP: 18	, 13,	, 3
	(a) 8	(b) —5		
	(c) 10	(d) 15		
0 37	In an AP: 2, 4, 6, 8	the commo	on differe	Answer:- (a) 8
Q 57.	(a) 2	(b) 4		
	(c) −2	(d) 1		
0.38	The first term and co	mmon difforonc	o of an A	Answer: - (a) 2
Q 30.		(b) 2, 7		¬r·2,7,12αιε
	(c) 2,−5	(d) −2, −5		
0.20	The sum of <i>n</i> terms	of an AD whose f	First torm	Answer:- (a) $2, 5$ in is 'a' and common difference is 'd' is
Q 39.	$S_n = \frac{n}{2} \left[\dots \dots + (n - 1) \right]$		iist term	
	(a) <i>a</i>	(b) 3 <i>a</i>		
	(c) 2 <i>a</i>	(d) 4 <i>a</i>		
0.40	If last torm of an AD	ic 1 than sum of	ite all to	Answer:- (c) 2 <i>a</i> rms is $S = \frac{n}{2}$ ()
Q 40.		(b) $a + l$		$\frac{1}{2}$ ()
	(c) $a + (n - 1) l$			
				Answer:- (b) $a + l$
			Chap	oter-6
Q 41.	All circles are			
	(a) Congruent		(b) Simi	
	(c) Equal			e of these Answer:- (b) Similar
Q 42.	All squares are		-	
	(a) Congruent		(b) Simi	
	(c) Equal			e of these Answer:- (b) similar
			-	





Answer:- (a) $\frac{1}{2}$

Q 60.	$\sin 60^{\circ} = \dots$				
	(a) $\frac{1}{2}$	(b) $\frac{\sqrt{3}}{2}$	(c) 0	(d) 1	Answer:- (b) $\frac{\sqrt{3}}{2}$
Q 61.	$\cos 60^{\circ} =$				
	(a) $\frac{1}{2}$	(b) $\frac{\sqrt{3}}{2}$	(c) 1	(d) 0	Answer:- (a) $\frac{1}{2}$
Q 62.	$\cos 30^{\circ} =$				
	(a) $\frac{1}{2}$	(b) $\frac{\sqrt{3}}{2}$	(c) 1	(d) 2	Answer:- (b) $\frac{\sqrt{3}}{2}$
Q 63.	$\tan 30^{\circ} =$				
	(a) $\frac{1}{\sqrt{3}}$	(b) √3	(c) 1	(d) 3	Answer:- (a) $\frac{1}{\sqrt{3}}$
Q 64.	$\tan 60^{\circ} =$				
	(a) $\frac{1}{\sqrt{3}}$	(b) √3	(c) 1	(d) 2	Answer:- $\sqrt{3}$
Q 65.	$\sin^2\theta + \cos^2\theta$	$\theta^2 \theta = \dots$			
	(a) —1	(b) 0	(c) 1	(d) 2	Answer:- (c) 1
Q 66.	$\cos ec^2 \theta - c$	$\cot^2 \theta = \dots$			
	(a) —1	(b) 1	(c) 0	(d) $\frac{1}{2}$	
				Answ	er:- (b) 1
Q 67.	$\sec^2 \theta - \tan^2 \theta$	$\theta^2 \theta = \dots$			
	(a) 1	(b) -1	(c) ()	(d) $\frac{1}{3}$
					Answer:- (a) 1

Q 68. $\sin \theta = \frac{Perpendicular}{Perpendicular}$ (b) Base (c) Perpendicular (a) Hypotenuse (d) 1 **Answer:-** (a) *Hypotenuse* Q 69. $\cos \theta = \frac{1}{Hypotenuse}$ (a) Hypotenuse (b) *Base* (c) *Perpendicular* (d) 1 **Answer:-** (b) *Base* Q 70. $\tan \theta = \frac{Perpendicular}{1}$ (a) *Hypotenuse* (b) *Base* (c) *Perpendicular* (d) 1 Answer:- (b) Base Q 71. $\sin^2 \theta = 1 - \dots$ (a) $tan^2\theta$ (b) $sec^2\theta$ (c) $cos^2\theta$ (d) $cot^2\theta$ **Answer:-** (c) $cos^2\theta$ (a) $tan^2\theta$ (b) $sec^2\theta$ (c) $cos^2\theta$ (d) $sin^2\theta$ **Answer:-** (a) $tan^2\theta$ Q 73. $sin 45^0 = \cdots \cdots$ (a) $\frac{1}{\sqrt{2}}$ (b) 1 (c) $\frac{1}{2}$ (d) 2 **Answer:-** (a) $\frac{1}{\sqrt{2}}$ Q 74. $cos 45^0 = \cdots \cdots$ (a) 1 (b) $\frac{1}{\sqrt{2}}$ (c) $\frac{1}{2}$ (d) $\frac{1}{\sqrt{3}}$ Answer:- (b) $\frac{1}{\sqrt{2}}$ Q 75. $tan 45^0 = \dots \dots \dots$ (a) $\frac{1}{2}$ (b) $\frac{1}{\sqrt{2}}$ (c) 1 (d) $\frac{2}{\sqrt{3}}$ Answer:- (c) 1 Q 76. $(Hypotenuse)^2 = (Base)^2 + (___)^2$ (a) Base (b) Perpendicular (c) Hypotenuse (d) 1 **Answer:-** (b) *Perpendicular*

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Q 77.	sin(9	$(\theta 0^0 - \theta)$	=	•••••						
	(a)	sinθ	(b)	cosθ	(c) tanθ	(d)		<i>tθ</i> Answer:- (b)	cosθ
Q 78.	cos	s (90 ⁰ –	θ) =							
	(a)	sinθ	(b)	cosθ	(c) tanθ	(d)	со	tθ	
									Answer:- (a)	sinθ
Q 79.	tar	n (90 ⁰ –	θ) =	=	•••	• • • • •				
	(a)	sinθ	(b)	secθ	(c) cotθ	(d)	CO	sθ	
									Answer:- (c)	cotθ
Q80.	sec ($(90^{\circ} - \theta)$) =	•••••	•••	•••				
	(a)	cosecθ	(b)	secθ	(c) cotθ	(d)	siı	nθ	
									Answer:- (a)	cosecθ
Q81.	cose	<i>c</i> (90 ⁰ –	θ) =	=						
	(a)	cosecθ	(b)	secθ	(c) cotθ	(d)	siı	nθ	
									Answer:- (b)	secθ
Q 82.	sin18 cos72	$\frac{3^{0}}{2^{0}} = \dots$	•••		•					
	(a)	0	(b)	1	(c)	90 ⁰	(d)	2		
									Answer:- (b)	1
Q 83.	sin	218 ⁰ – co	os72	$^{0} = \dots$	•••					
	(a)	1	(b)	9	(c)	0	(d)	2		
									Answer:- (c)	0
Q 84.	9 <i>s</i> e	ес ² А — 9	tan²	$A = \ldots$						
	(a)	1	(b)	9	(c)	0	(d)	2		
									Answer:- (b)	9
Q85.	$\frac{1+t}{1+t}$	$\frac{\tan^2 A}{\cot^2 A} =$	•••		• • •					
	(a)	1	(b)	cot ² A	(c)	tan²A			(d) <i>sin</i> ² <i>A</i>	
									Answer:- (c)	tan²A

Q86.	$cosecA = \frac{1}{\dots}$		
	(a) <i>sinA</i> (b) <i>cosA</i>	(c) tanA	(d) cotA
			Answer:- (a) sinA
Q 87.	$secA = \frac{1}{\dots}$		
	(a) <i>sinA</i> (b) <i>cosA</i>	(c) tanA	(d) <i>cotA</i> Answer:- (b) <i>cosA</i>
Q 88.	$cotA = \frac{1}{\dots}$		
	(a) <i>sinA</i> (b) <i>cosA</i>	(c) tanA	(d) <i>cotA</i>
			Answer:- (c) tanA
		Chapter- 10	
Q 89.	Tangent of a circle touches t	he circle at pc	pint(s).
	(a) 1 (b) 2	(c) 0 (d) 03	
0.00	Line intercepting the circle a	t two points is called	Answer:- (a) 1
Q 90.	Line intersecting the circle a (a) Tangent (b) Secant	•	
			Answer:- (b) Secant
Q 91.			
	(a) 1 (b) 0	(c) Infinite	(d) 4 Answer:- (c) Infinite
0 92.	Common point of a circle an	d a tangent is called	
	•	(b) Secant point	
	(c) Common point	(d) Origin	
0.02	The lengest should of a sizele	is called	Answer:- (a) Point of contact
Q 93.	The longest chord of a circle (a) Radius	(b) Diameter	
	(c) Secant	(d) Parallel line	
			Answer:- (b) Diameter
Q 94.	Tangents drawn from an ext	-	le arein length
	(a) equal (c) less or more	(b) parallel (d) none of these	
			Answer:- (a) equal
Q 95.	tangent(s) can be d	rawn from a point insi	
	(a) One	(b) Two	
	(c) None	(d) Three	
0 06	From a point on a circle	tangent/tangents	Answer:- (c) None
Q 90.	(a) Only one	(b) Two	
	(c) None	(d) Three	
			Answer:- (c) None
Q 97.			tangent/ tangents can be drawn.
	(a) Only one (c) None	(b) Two (d) Three	
			Answer:- (b) Two
			· ·

Q 98. Tangents makes an angle of.....at the point of contact to the radius. (a) 30^{0} (b) 0^{0} (c) 90^{0} (d) 60^{0}

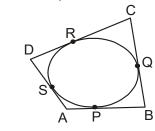
(b) BC + AB

(d) AB + BC

Answer:- (c) 90⁰

Q 99. In the fig, a quadrilateral is drawn touching a circle externally then

 $AB + CD = \dots$ (a) AD + BC(c) DC + BC



Answer:- (a) AD + BC

Q 100. A parallelogram circumseribing the circle is a.....

- (a) Square (b) Rectangle
- (c) Rhombus (d) Trapezium

Answer:- (c) Rhombus

Chapter-12

Q 101. In a circle with radius r and angle of the sector θ , the length of an arc is

(a) $\frac{\theta}{360} (\pi r)$	(b) $\frac{\theta}{360} (2\pi r)$
(c) $\frac{\theta}{360} (\pi r^2)$	(d) $\frac{(2\pi r^2)\theta}{360}$

Answer:- (b) $\frac{\theta}{360}$ (2 πr

Q 102. In a circle with radius r and angle of the sector θ , the area of the sector is

(a) $\frac{\theta}{720} (\pi r^2)$ (b) $\frac{\theta}{360} (2\pi r^2)$ (c) $\frac{\theta}{360} (\pi r^2)$ (d) $\frac{3\pi r^2 \theta}{360}$

Answer:- (c) $\frac{\theta}{360}$ (πr^2)

- Q 103. If the circumfrence of a circle and area of the circle are numerically equal, then the radius of the circle is
 - (a) Two units (b) π units
 - (c) 4 units (d) 5 units

Answer:- (a) Two units

- Q 104. $\pi = \frac{circumference of circle}{\dots of the circle}$ (a) volume (b) diameter (c) area (d) radius
- Q 105. The area of major sector = πr^2
 - (a) radius (b) diameter
 - (c) area of minor sector (d) area of minor segment

Answer:- (c) area of minor sector

- Q 106. The minute hand of the clock covers an angle of.....in one minute
 - (a) 5° (b) 60°
 - (c) 6° (d) 50°

Answer:- (c) 6°

(a)) circle	(b) triangle	ector - area of corresponding	
(c)) radius	(d) diameter	Answer:- (b) triangle	
0 100	Circumforoncoc of a	circle of radius r is?	apter-13	
-) πr^2	(b) $2\pi r$		
• •) $4\pi r^2$	(d) $3\pi r$		
(0)	,	(u) <i>5111</i>	Answer:- (b) $2\pi r$	
Q 109.	f r is radius and h is	height of the cylinder	then volume of cylinder is	
		(b) $2\pi r^2 h$		
(c)		(d) $3\pi r^2 h$		
			Answer:- (c) $\pi r^2 h$	
Q 110. If <i>r</i> is radius and <i>h</i> is height of cone then volume of cone is				
(a)) πrl	(b) $\frac{1}{2}\pi r^{2}h$		
(c)		(d) $2\pi r^2 h$		
. ,		. ,	Answer:- (b) $\frac{1}{2}\pi r^2 h$	
O 111 H	frisradius and liss	slant height of cone th	en curved surface area of cone is	
	$\pi r l$	(b) $2\pi r^2$		
• •) πr^2	(d) $3\pi r^2$		
(-)			Answer:- (a) $\pi r l$	
Q 112. I	f r is radius of spher	e then its volume is		
		(b) $2\pi r^2$		
(c)	$\frac{4}{2}\pi r^{3}$	(d) $\frac{2}{3}\pi r^{3}$		
	3	3	Answer:- (c) $\frac{4}{3}\pi r^3$	
O 112 H	fricradius of cohor	a than its surface area	5	
) $4\pi r^2$	re then its surface areat (b) $2\pi r^2$		
• • •	•	(d) πr^2		
(0)	, 511	(a) <i>I</i> (i	Answer:- (a) $4\pi r^2$	
Q 114. If r and h are radius and height of cylinder then its lateral surface area is (a) πrl (b) $2\pi rh$				
(c)) $\pi r^2 h$	(d) $\frac{1}{2}\pi r^{2}h$		
(-)	,	(a) 3 an a	Answer:- (b) $2\pi rh$	
Q 115.	Volume of a cuboid	is		
-) lbh	(b) $2(l+b) \times$	< h	
	2(lb + bh + hl)			
(0)	, = (15 + 510 + 100)		Answer:- (a) <i>lbh</i>	
Q 116.	Lateral surface area	a of a cuboid is		
(a)) lbh	(b) $2(l+b) \times$: h	
(c)	2(lb + bh + hl)	(d) $\sqrt{l^2 + b^2}$ -	$+h^2$	
. ,			Answer:- (b) $2(l+b) \times h$	
Q 117.	The volume of a cul	be is		
• •	$) a \times a \times a$			
(c)) $6 \times a \times a$	(d) a^2		
			Answer:- (a) $a \times a \times a$	

The total surface area of a cube is Q 118. (a) $a \times a \times a$ (b) $4 \times a \times a$ (c) $6 \times a \times a$ (d) a^2 **Answer:-** (c) $6 \times a \times a$ Q 119. The volume of a frustum of cone is (a) $\frac{1}{3}\pi r_1^2 h$ (c) $\frac{1}{3}\pi (r_1^2 + r_2^2 + r_1r_2)h$ (b) $\frac{1}{3}\pi r_2^2 h$ (d) $\pi r_{1}^{2}h$ Answer:- (c) $\frac{1}{3}\pi(r_1^2 + r_2^2 + r_1r_2)h$ Q 120. The curved surface area of a frustum of cone is (a) $\pi r_1 l$ (b) $\pi r_2 l$ (c) $\pi(r_1 + r_2)l$ (d) $2\pi r_1 l$ **Answer:-**(c) $\pi(r_1 + r_2)l$ Q 121. Volume of solid made of combination of two solids is equal to the (b) substraction of volumes (a) sum of volumes (c) multiplication of volumes (d) division of volumes Answer:- (a) sum of volumes Chapter-14 Q 122. 3 Median =+ 2 Mean (a) Medien (b) Mode (c) Mean (d) Frequency Answer:- (b) Mode Q 123. Class mark = $\frac{upper \ class \ limit + lower \ class \ limit}{$ (a) 1 (b) 2 (c) 3 (d) 4 Answer:- (b) 2 Q 124. Mode = $l + \left(\frac{f_1 - f_0}{2f_1 - f_0 - f_2}\right) \times h$ where *l* is (a) Lower limit of modal class (b) Upper limit of modal class (c) Length (d) Breath Answer:- (a) Lower limit of modal class Q 125. Madia = $l + \frac{\frac{n}{2} - c.f}{f} \times h$ where c.f =(a) Cummulative frequency of class preceding the median class (b) Frequency of median class (c) Cummulative frequency of class succeeding the median class (d) Frequency Answer:- (a) Cummulative frequency of class preceding the median class Q 126. Formula for the computation of mean by step deviation method is..... (b) $\bar{x} = a + \frac{\sum f_i d_i}{\sum f_i}$ (d) $\bar{x} = a \frac{\sum f_i d_i}{\sum f_i}$ (a) $\bar{x} = a + \frac{\sum f_i u_i}{\sum f_i} \times h$ (c) $\bar{x} = \frac{\sum f_i x_i}{\sum f_i}$ Answer:- (a) $\overline{x} = a + \frac{\sum f_i u_i}{\sum f_i} \times h$

Chapter-15 Q 127. $P(E) + P(\overline{E}) = \cdots \cdots$ (a) 1 (c) 3 (d) 4 (b) 2 Answer:- (a) 1 Q 128. The Probability of an event is greater than or equal to.....and less than or equal to..... (a) -1,1 (b) 0,1 (c) 1,2 (d) -1,-2 Answer:- (b) 0,1 Q 129. The Probability of an event that is certain to happen is such an event is called (b) 0, impossible event (a) 1, sure event (c) 0, possible event (d) 1, impossible event **Answer:-** (a) 1, sure event Q 130. Which number cannot be the probability of an event? (a) $\frac{2}{3}$ (b) 15% (c) -1.5(d) 0.2 **Answer:-** (c) -1.5Q 131. P (E) = $\frac{Number of outcomes favourable to E}{}$ (a) Number of outcomes not favourable to E (b) Number of all impossible outcomes (c) Number of outcomes favourable to E (d) Number of all possible outcomes of E Answer:- (d) Number of all possible outcomes of E Q 132. In a deck of 52 cards, number of face cards are..... (a) 8 (b) 12 (c) 16 (d) 4 Answer:- (b) 12 Q 133. A coin is tossed once, the probability of getting Head is..... (b) $\frac{1}{2}$ (c) $\frac{1}{2}$ $(d)\frac{1}{4}$ (a) 0 Answer:- (b) $\frac{1}{2}$ Q 134. A die is thrown once, probability of getting 6 is..... (c) $\frac{1}{6}$ $(d)\frac{1}{5}$ (b) 0 (a) 1 Answer:- (c) $\frac{1}{6}$ Q 135. The sum of the probability of all elementary events of an experiment is..... $(d)\frac{1}{2}$ (a) 0 (b) 2 (c) 1 Answer:- (c) 1 Q 136. If P (E) = 0.9 then P (\overline{E}) = (b) 0 (a) 1 (d) 0.9 Answer:- (c) 0.1 Q 137. A box contains 5 red marbles, 8 white marbles and 4 green marbles. What is the probability of a getting red marble if a marble is drawn at random from the box. (a) $\frac{5}{17}$ (b) $\frac{8}{17}$ (d) $\frac{5}{17}$ (c) $\frac{4}{17}$ **Answer:-** (a) $\frac{5}{17}$