Question Bank For CWSN

Class-10th

Questions Regarding Matching

Chapter-1

Q. 1 Match the following:-

 $\sqrt{3}$ 1.

(a) Rational number

2. 2 (b) Irrational number

- (Answer:- $1. \rightarrow (b)$ $2. \rightarrow (a)$

Chapter-4

Q. 2 Match the following:-

- 1. A quadratic equation $ax^2 + bx + c = 0$ has real and different roots
- (a) $b^2 4ac = 0$
- 2. A quadratic equation $ax^2 + bx + c = 0$ has no real roots
- (b) $b^2 4ac < 0$
- 3. A quadratic equation $ax^2 + bx + c = 0$ has two real and equal roots
- (c) $b^2 4ac > 0$

4. $ax^2 + bx + c = 0$ If $a = 0, b, c \neq 0$ $b, c \rightarrow \text{Real number}$

(d) Quadratic equation

- $5. ax^2 + bx + c = 0$
 - If $a \neq 0$, a, b, $c \rightarrow \text{Real number}$

(e) Liner equation

(Answer:-

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

Chapter-5

Match the following:-Q. 3

- $a, a + d, a + 2d, a + 3d, \cdots$
- (a) sum of the first n terms of an A.P.
- $S_n = \frac{n}{2} \left[2a + (n-1)d \right]$ 2.
- (b) General form of an A.P.

 $S_n = \frac{n(n+1)}{2}$ 3.

(c) $a_n = a + (n-1) d$

nth term of an A.P. 4.

- (d) sum of first n positive integers
- 5. For an AP: 2,7,12, ···· write the next term
- (e) 12
- 6. For an AP: 21,18,15, ... write the next term
- (f) 11
- For an AP:-5, -1, 3, $7 \cdots \cdots$ write next term 7.
- (g) 17

8. Is $2, 4, 6, 8, 10 \cdots$ an A.P.? (h) Not an A.P.

9. Is 1, 4, 8, 13 ····· an A.P.? (i) An A.P.

For an A.P. $3.1.-1.-3.\cdots$ first term 10.

- (j) 4
- For an A.P. -5, -1, 3, $7 \cdots \cdots$ common difference 11.
- (k) 3
- (Answer:- $1. \rightarrow (b)$ $2. \rightarrow (a)$ $3. \rightarrow (d)$ $4. \rightarrow (c)$ $5. \rightarrow (g)$ $6. \rightarrow (e)$

$$7. \to (f) \ \ 8. \to (i) \ 9. \to (h) \ \ 10. \to (k) \ \ 11. \to (j) \)$$

Q. 4 Match the following:-

1. All squaures are

(a) Equilateral

2. All triangles are Similar

- (b) Similar
- 3. 2. both triangles are (c) Congruent

 - (Answer:- $1. \rightarrow (b)$ $2. \rightarrow (a)$ $3. \rightarrow (c)$)

Chapter-7

Q. 5 Match the following:-

The distance between the points

$$P(x_1, y_1,) \ and \ Q(x_2, y_2) \ is$$

- (a) $\sqrt{x_1^2 + y_1^2}$
- 2. The coodinates of the mid-points of

$$P(x_1, y_1,)$$
 and $Q(x_2, y_2)$ are

(b)
$$\sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

The coordinates of the mid point of

$$(-4, 6)$$
 and $(8, 2)$ are

(c) (2, 4)

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 $(6,8)$ is

(Answer:
$$1 \rightarrow (h)$$

$$2. \rightarrow (d)$$

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

Chapter-8, 9

Q. 6 Match the following:-

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

Q. 7

 $\sqrt{2}$ (g)

 $(\mathsf{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) \)$

- Match the following:-
 - 1. $\sin^2 \theta + \cos^2 \theta$
- (a) $1 + \tan^2 \theta$

	2.	$\csc^2 \theta$	(b)	$1 + \cot$	$^{2} \theta$			
	3.	$\sec^2 \theta$	(c)	1				
	4.	cosec A	(d)	$\frac{1}{\cot A}$				
	5.	tan A	(e)	$\frac{1}{\sin A}$				
	6.	$\sin \theta$	(f)	perpend	dicular (P)	_		
					e (B)	_		
	7.	$\tan \theta$	(g) —		dicular (P) nuse (H)	-		
	8.	$\cot \theta$	(h)	Hypotei	nuse (H) dicular (P)	_		
	9.	$\csc \theta$	(i)		nuse (H)			
				Bas	e (B)	_		
	10.	$\sec \theta$	(j)		e (B) dicular (P)	_		
	(Ans	swer:- $1 \rightarrow (c)$	$2. \rightarrow (b)$ 3.			$5. \rightarrow (d)$	6. →	(g)
		$7. \rightarrow (f)$ 8	$0. \rightarrow (j) 9. \rightarrow (j)$	(h) 10.	$\rightarrow (i)$			
		•		Chapter-				
Q. 8	M	atch the followin	ıg:-					
1.	A circle	e has	tangants				(a)	secant
2.	A tang	ent to a circle tou	iches the circle	at	point		(b)	many
3.	The lin	e which intersect	s the circle at t	wo point	s is called.		(c)	one
4.	A circle	e can have	of parallel ta	angents.			(d)	Point of contact
5.	The co	mmon point of a	tangent to the	circle an	d the circl	е		
		ed					(e)	many pairs
	(Ans	swer:- 1 . \rightarrow (b)		. → (a) Chapter		$5. \rightarrow (d)$)	
Q . 9	M	atch the followin	ıg:-					
1.	Area o	f the sector				(a)	$2\pi r$	
2.	Length	of an arc of a sec	ctor			(b)	$\frac{\frac{\theta}{360^{\circ}} \times \frac{1}{360^{\circ}}}{\frac{\theta}{360^{\circ}}} \times$	πr^2
3.	Area d	of a circle				(c)	$\frac{\theta}{360^{\circ}} \times$	$2\pi r$
4.	Circum	nference of a circl	e			(d)	πr^2	
	(Ans	swer:- $1. \rightarrow (b)$		a o (d) Chapter				
_			_					

Q. 10 Match the following:-

1. Total surface area of a cylinder

(a) $\pi r^2 h$

(b) $2 \pi r h + 2 \pi r^2$ 2. Volume of a cylinder (c) $\frac{4}{3}\pi r^3$ 3. Total surface Area of a cone 4. Volume of a Sphere $\pi r l + \pi r^2$ (d) (Answer:- $1. \rightarrow (b)$ $2. \rightarrow (a)$ $3. \rightarrow (d)$ $4. \rightarrow (c)$ Chapter-13 Q. 11 Match the following:-(a) $l + \left(\frac{f_{1-f_0}}{2f_{1-f_0-f_2}}\right) \times h$ 1. Class mark (b) Upper class limit + lower class limit 2. Formula of Mode (c) mode + 2 (mean)3. Formula of Median (d) $l + \frac{\left(\frac{n}{2} - c \cdot f\right)}{f} \times h$ 4. 3 Median (e) $\bar{x} = a + \frac{\sum f_{id_i}}{\sum f_i}$ 5. Mean by Direct method (f) $\bar{x} = \frac{\sum f_{ix_i}}{\sum f_i}$ 6. Mean by Assumed Mean Method $(\mathsf{Answer:-}\ \ 1. \rightarrow (b) \qquad 2. \rightarrow (a) \qquad 3. \rightarrow (d) \quad 4. \rightarrow (c) \quad 5. \rightarrow (f) \quad 6. \rightarrow (e) \quad)$ Chapter-14 Q. 12 Match the following:-A card is drawn from a well-shuffled deck of 52 cards 13 52 1 52 12 52 6 52 2 52 4 52 1. Probability of getting a king (a) 2. Probability of getting a spade (b) (c) 3. Probability of getting the queen of diamond 4. Probability of getting a face card (d) 5. Probability of getting a red face card (e) 6. Probability of getting a king of red colour (f) (Answer:- $1. \rightarrow (f)$ $2. \rightarrow (a)$ $3. \rightarrow (b)$ $4. \rightarrow (c)$ $5. \rightarrow (d)$ $6. \rightarrow (e)$ Q. 13 Match the following:-(Mixed Sample Question) 1. smallest whole number (a) 2 2. smallest natural number (b) 0 3. smallest even prime number 90° (c)

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

Chapter-1

(d)

1

(X)

1. HCF is the smallest factor of two positive integers.

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

4. measure of right angle

2. HCF is the smallest common factor of two integers. (\times) 3. HCF of two consecutive prime numbers is 2. (\times) 4. HCF of two consecutive prime numbers is 1. (\checkmark) **(**✓) 5. HCF of 24 and 4 is 4. **(**✓) 6. Every composite number can be factorised as product of primes. 7. HCF of 26 and 91 is 7. (X)8. HCF of 26 and 91 is 13. (\checkmark) 9. $\sqrt{5}$ is a rational number. (X)10. $3\sqrt{2}$ is an irrational number. (\checkmark) 11. $6 + \sqrt{2}$ is an irrational number. (\checkmark) 12. $3\sqrt{2}$ is a rational number. (X)13. L.C.M of two numbers is the smallest common multiple. (\checkmark) Chapter-2 1. The degree of linear polynomial of one variable is 1. (\checkmark) 2. Number of zeroes of $x^2 + 4x + 9$ is 2. (\checkmark) 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. **(**√) 5. $x^2 + 3x + 2$ is a quadratic polynomial. (\checkmark) 6. Number of zeroes of quadratic polynomial is 3. (X)7. In the polynomial $x^2 - Sx + P$, S is sum of zeroes. (\checkmark) 8. In the polynomial $x^2 - Sx + P$, P is sum of zeroes. (X)**Chapter-3** 1. Equation 4x + y = 6 has no solution. (X)2. Equation 4x + y = 6 has many solution. (\checkmark) 3. In equation 2x + y = 3, If y = 3 then x = 0 (\checkmark) 4. A pair of linear equations in two variables has one and only one solution. (X)5. In the pair of linear equations $a_1x + b_1y = c_1$ $a_2x + b_2y = c_2$ If $\frac{a_1}{a_2} \neq \frac{b_1}{b_2}$ then system has unique solution. (\checkmark)

$$a_1 x + b_1 y = c_1$$
$$a_2 x + b_2 y = c_2$$

6. In the pair of linear equations

If
$$\frac{a_1}{a_2} = \frac{b_1}{b_2} = \frac{c_1}{c_2}$$
 then system has no solution. (\times)

7. In the pair of linear equations

$$a_1x + b_1y = c_1$$

$$a_2x + b_2y = c_2$$

If
$$\frac{a_1}{a_2} = \frac{b_1}{b_2} \neq \frac{c_1}{c_2}$$
 then system has many solution. (\times)

8. In equation 4x + y = 0, if x = 6 then y = -4 (×)

Chapter-4

- 1. x + 4 = 0 is a quadratic equation. (\times)
- 2. $x^3 + 4x + 6 = x(x + 2)$ is not a quadratic equation. (\checkmark)
- 3. The discreminant of quadratic equation is $D = b^2 4ac$
- 4. The formula $x = \frac{-b \pm \sqrt{D}}{2a}$ can be used to find roots of a cubic equations. (\times)
- 5. 4, -3 are roots of equation (x-4)(x+3)=0
- 6. If roots of a quadratic equation are real then D < 0 (\times)
- 7. If roots of a quadratic equation are equal then D > 0 (\times)
- 8. If D = 0 then roots of a quadratic equation are real and equal. (\checkmark)
- 9. 4 and 3 are roots of the quadratic equation $x^2 7x + 12 = 0$.

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 nth term of an A.P. (\checkmark)
- 5. Common Differance of an A.P. cannot be a negative number. (X)
- 6. 2,4,8,16,... is not an A.P (\checkmark)
- 7. 10^{th} term of 2,7,12,..... is 47
- 8. The Difference between 4 th and 3 determ is called common difference of an A.P (\checkmark)
- 9. The Common Difference of an A.P can be negative, positive or zero. (\checkmark)
- 10. Sum of first n terms of an A.P. is given by the formula

$$S_n = \frac{n}{2} \left[2a + (n - 1d) \right] \tag{\checkmark}$$

- 11. $a_n = a + (n+1)d$ is used to find the nth term of an A.P. (\times)
- 12. The sum of first n natural number is given by the formula

$$S_n = \frac{n(n+1)}{2} \tag{\checkmark}$$

13. In AP: 4,10,16,22 common difference is 6 and first term is 4. (\checkmark)

(✓)

1. Two congruent triangles are of same shape and of equal measurement.

(✓) 2. Two congruent triangles are also similar triangles. 3. Squares of equal sides are congruent. **(**✓) 4. Corresponding angles of similar triangles are equal. (\checkmark) 5. Corresponding angles of congruent triangles are not equal. (X)6. Corresponding sides of similar triangles are proportional. (\checkmark) 7. If $\triangle ABC \sim \triangle DEF$ then AB = DE (\times) 8. SAS is not criterion for the similar triangle. (\times) Chapter-7 1. Origin is the intersecting point of x-axis and y-axis. (\checkmark) 2. Point (x,0) lies on y-axis. (X)3. Point (2,0) lies on x-axis. **(**✓) 4. Point (0, 6) lies on y-axis. (\checkmark) 5. Distance of the point (x, y) from the origin is $\sqrt{x^2 + y^2}$ (\checkmark) 6. A graph can be divided into two quadrants. (X)**(**✓) 7. A graph can be divided into four quadrants. **(**✓) 8. The coordinates of origin are (0, 0). 9. Abscissa of point (6, 0) is 6. **(**✓) 10. Ordinate of point (-7, 4) is -7. (X)11. $\sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$ is called section formula. (X)12. Any two sides of a isosceles triangles are of equal length. (\checkmark) 13. No Side of an equilateral triangle is equal. (X)14. Each angle of a right triangle is of 90°. (X)15. Each side of an equilateral triangle is of equal length. (\checkmark) 16. Collinear points lie on the same triangle. (X) (\checkmark) 17. Collinear points lie on the same line. 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. $(\frac{m_1x_2+m_2x_1}{m_1+m_2}, \frac{m_1y_2+m_2y_1}{m_1+m_2})$ is section formula. (\checkmark) Chapter-8 1. In right angled triangle only one angle is of 90° (\checkmark)

3. Trigonometry is called measurement of triangles. (\times) 4. The relationship between angles and sides is called Trigonometry. (\checkmark) 5. Trigonometry is not used to measure heights and distances. (X)6. In right angled triangle, hypotenuse is the longest side. (\checkmark) 7. Value of sin 0° is 0 (\checkmark) 8. Value of tan 30° is $\sqrt{3}$ (X)9. Sum of three angles of a triangle is 180°. (\checkmark) 10. Value of tan A is defined for A= 90° (X) $11. \sin^2\theta + \cos^2\theta = 1$ (\checkmark) 12. $9sec^2A - 9tan^2A = 6$ (X) $13. 1 + tan^2A = sec^2A$ (\checkmark) 14. $cosec\ A = \frac{1}{sinA}$ (\checkmark) 15. $tanA = \frac{1}{cotA}$ (\checkmark) 16. $sin 30^{\circ} = \frac{1}{2}$ (\checkmark) 17. $cos60^{\circ} = \frac{1}{2}$ (\checkmark) 18. If $tan45^{\circ} = 1$ then $cot45^{\circ}$ is not defined. (\times) 19. The value of $sin^2\theta + cos^2\theta$ is equal to 1 (\checkmark) 20. $sec^2\theta - tan^2\theta$ is equal to 2 (X)21. $tan \theta = \frac{Base}{Hypotenuese}$ (X)Chapter-9 1. The line drawn from the eye of an observer to the location of object is (\checkmark) called line of sight. 2. There is not any difference between angle of elevation and angle of depression. (\times) 3. Angle of elevation is above the horizontal level. (\checkmark) 4. Angle of elevation is below the horizontal level. (\times) 5. Angle of depression not above the horizontal level. (\checkmark) 6. Angle of depression not below the horizontal level. (\times) 7. If in a right triangle length of base and perpendicular is equal then base angle is of 45° (\checkmark) Chapter-10 1. End points of a chord lie on the circle. **(✓**) 2. There can be only one point common between two circles. (\times)

 (\times)

2. Measurement of sides of a triangle is called algebra.

3. The circle and its tangent has two common points. (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 its radius. (X)8 Concentric circles have common centre. **(✓**) 9. The radius of the circle is half of the diameter of that circle. **(✓**) 10. The diameter of the circle is twice the radius of that circle. **(✓**) 11. The tangent of the circle is perpendicular to radius passing through point of contact. **(✓**) 12. Length of tangents drawn from an external point is not equal. (X)13. Perpendicular drawn from the centre of the circle bisects the chord. **(✓**) 14. If diameter of circle is 14cm then its radius will be 7cm. **(✓**) 15. A tangent subtends an angle of 180° with the radius of the circle at pont of contact. (X)Chapter-11 1. Area a circle is $2\pi r$. (X)2. The radius of circle is twice the diameter. (\times) 3. The region bounded between an arc and chord is called segmant. **(✓**) 4. Sector is a region between radius and chord. (X)**(✓**) 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. The ratio of circumference of the circle to the radius is called π . (\times) 8. 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. (X)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 radius and θ 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 r is radius. **(✓**) Chapter-12 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 3cm is 12π . (X)3. Volume of a cube is a^3 . **(✓**) 4. Volume of a cuboid is l+b+h. (X)5. Area of the roof of cubical room is a^2 , where as a is the length of the **(✓**) edge of the cube. 6. Formula for the volume of cone is $\frac{1}{3} \pi r^2 h$. **(✓**) 7. Volume of a cuboid is $l \times b \times h$. **(✓**) 8. Lateral surface area of a cuboid is 2(l+b)h. **(√**) 9. If radius of the sphere is 7cm then its curved surface area is 154cm^2 . (\times) 10. To find the volume of a Road Rollar, formula for the volume of cone is used. (\times) 11. The shape of the base of a cone is spherical. (X)**(✓**) 12. The shape of the base of cone is circular. Chapter-13 1. Mean is not a measure of central tendency. (\times) 2. Mean, median and mode are the measures of central tendency. **(✓**) 3. Class mark is difference of upper class limit and lower class limit. (X)4. Class mark is half of the sum of upper class limit and lower class limit. **(✓**) 5. Direct method cannot be used for computing mean. (X)6. Direct method, step-deviation method and Assumed mean method are **(✓**) used to calculate mean. 7. To compute median, mean and mode continuous class intervals is necessary. (X)8. $\bar{x} = \frac{\sum f_i x_i}{\sum f_i}$ is Direct method to compute mean. **(✓**) Chapter-14 1. When a coin is tossed then maximum possible outcomes are 2. (\checkmark) 2. $Probabilty = \frac{Number\ of\ favourable\ outcomes}{Total\ number\ of\ possible\ outcomes}$ (\checkmark) 3. The probability of an impossible event is zero. (\checkmark) 4. When a coin is tossed, probability of getting head and tail is $\frac{1}{3}$. (X)5. The probalility of a sure event is zero. (X)

6.	The probabil	lity of sure eve	ent is 1.			(✓)
7.	The probabi	lity of every ev	ent is negative			(\times)
8.	Probalilty of		(\times)			
9.	The probalilt	ty of an impos	sible event car	not be calcula	ted.	(×)
10			e, the probabilit	ty of getting a	number greater	
	than 4 is $\frac{2}{6}$.				_	(√)
11	. When a die i	is thrown, prol	bability of getti	ng a prime nu	mber is $\frac{1}{6}$.	(×)
12	. The probabi	ility of an impo	ossible event is	1.		(\times)
13	. P(E) + P(E)	$\bar{E})=1$				(√)
14	. When a coir	n is tossed, pro	bability of gett	ting tail is $\frac{1}{2}$		(√)
15	. It is impossi	ble to find the	probability of	an absent stud	dent in the class.	(\times)
		N	Multiple cho	ice Questic	ons	
Q 1.	Whole numb	per, does not b		Chapter-1		
Q I.	(a) Natural			s (c) Rationa	l number (d) Answer:- (a) Natu	Real number
Q 2.	Sum of ratio	nal and irratio	nal number is		Allswei (a) Natu	rai ilullibei
	(a) Rationa	l number (b) li	rrational numb	er (c) Whole i	number (d) Natural Answer:- (b) Irrat	
Q 3.	Which of the	e following is a	rational numb	er?	Allswei. (b) illat	ionai nambei
	(a) $\sqrt{2}$	(b) $\sqrt{3}$	(c) $\sqrt{5}$	(d) 5	Americani (d) F	
Q 4.	Which of the	e following is a	n irrational nu	mber?	Answer:- (d) 5	
	(a) 2	(b) 3	(c) 5	(d) $\sqrt{5}$	_	
Q 5.	How many f	actors of a prin	me number are	there?	Answer:- (d) $\sqrt{5}$	
QJ.	(a) Two	(b) Three	(c) Four	(d) Five		
Q 6.	What is the	HCF of 3 and 9	. 2		Answer: - (a) Two	
Q 0.	(a) 3	(b) 6	(c) 9	(d) 1		
	(u) 3	(6) 0	(0)	(0) 1	Answer:- (a) 3	
Q 7.	What is the	HCF of 4 and 6	; ?		Allswer (a) 3	
-			(c) 6	(d) 8		
					Answer:- (b) 2	
Q 8.	What is the	LCM of 4 and 8	3 ?		(4, =	
	(a) 4	(b) 8	(c) 12	(d) 2		
0.0	NATIONAL CONTRACTOR	1014-10	1.2		Answer:- (b) 8	
Q 9.		LCM of 3 and 4		(d) 10		
	(a) 3	(b) 4	(c) 8	(d) 12		

		10
Answer:-	lai	12

- 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 quadratic polynomial are there (atmost)?
 - (a) 1
- (b) 2
- (c) 3
- (d) 4

Answer:- (b) 2

- Q 3. What is the degree of a quadratic polynomial?
 - (a) 1
- (b) 2
- (c) 3
- (d) 4

Answer:- (b) 2

- If \propto and β are zeroes of quadratic polyonomial then $\propto +\beta =$ Q 4.
- (b) c + a (c) b + a (d) $\frac{-b}{a}$

Answer:- (d) $\frac{-b}{a}$

- What is the degree of polynomial $P(x) = 5x^3 + x 2$ Q 5.
 - (a) 1
- (b) 2
- (c) 3

Answer:- (c) 3

- In quadratic polynomial $ax^2 + bx + c$, a is not equal to? Q 6.
 - (a) 0
- (b) 1
- (c) 2
- (d) 3

Answer:- (a) 0

- $x^3 + 2x^2 + 1$ is an example of which type of polynomial? Q 7.
 - (a) Quadratic polynomial
- (b) Cubic polynomial
- (c) Linear polynomial
- (d) biquadratic

Answer:- (b) Cubic polynomial

- What is number of zeroes in the figure? Q 8.
 - (a) 1 (b) 2 (c) 3 (d) 0



Q 9. What is number of zeroes in the figure?

- (a) 0 (b) 1 (c) 2 (d) 3

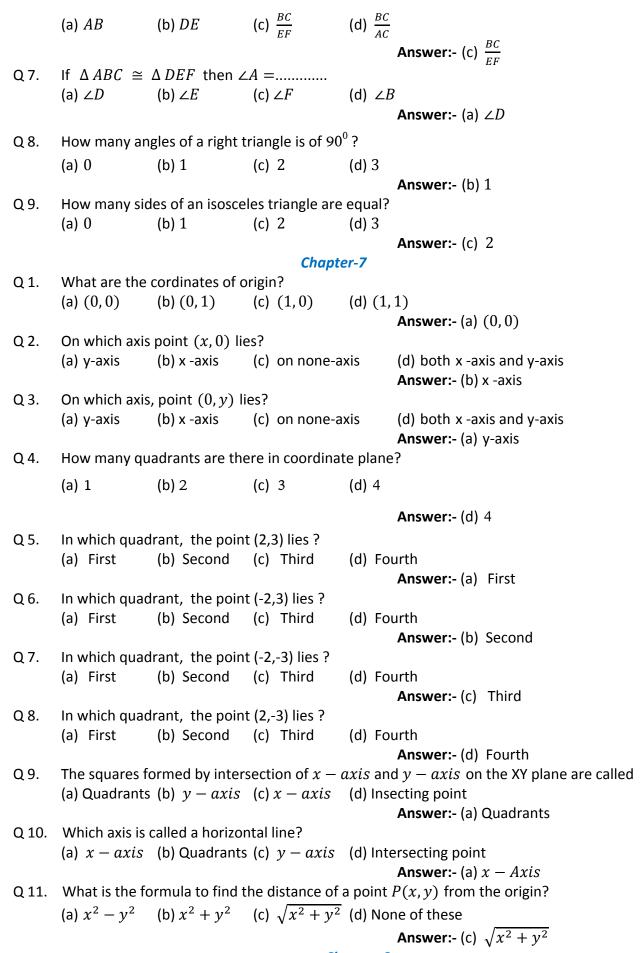
Answer:- (c) 2

Chapter-3

- Q 1. If $\frac{a_1}{a_2} = \frac{b_1}{b_2} = \frac{c_1}{c_2}$ 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:- (c) Infinitely many solution
- 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.	equations				able to the pair of linear
	(a) An uni	que solution (I	o) No solutions		ly many solution (d) None of these r:- (a) An unique solution
Q 1.	Which of t	he following is	not a method	-	quadratic equation?
Q I.		-		_	g square method
	` '	ninant metho	` '	Addition m	- '
	(-,		(-,		Answer:- (d) Addition method
Q 2.	$D = b^2 -$	4ac is used for	calculating?		. ,
	(a) Discrir	ninant (b)	Factorisation	(c) Pe	rfect square (d) Subtraction
					Answer:- (a) Discriminant
Q 3.		•	Iratic equation		
	(a) $D < 0$	(b) $D > 0$	(c) $D = 0$	(d) $D =$	
					Answer:- (a) $D < 0$
Q 4.		•	Iratic equation		•
	(a) $D < 0$	(b) $D > 0$	(c) D = 0		
Q 5.	Which of t	ho following is	a quadratic eq		Answer:- (c) $D=0$
QJ.					$x = x^2 + 2$ (d) $x^2 - x + 4 = 0$
	(a) λ	11-0 (5)	λ 3 – 0		Answer:- (d) $x^2 - x + 4 = 0$
Q 6.	Which of t	he following is	a quadratic for		
Ψ.	(a) h (2)	دا ۱۵۰۰ ما	$-b \pm \sqrt{b^2 - 4ac}$	$-a \pm \sqrt{b^2}$	$\frac{a^2-4ac}{b}$ (d) $-b \times 2a$
	(a) $-b + 2$	a (b)	2 <i>a</i>	(C)	$\frac{1}{1-b}$ (a) $-b \times 2a$
					Answer:- (b) $\frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$
				Chapter-5	Zu
01.	In AP: 2.4.6	5.8wh	ich is the first to	erm?	
Ψ.					
	(a) 2	(b) 4	(c) 6	(d) 8	
					Answer:- (a) 2
		0			. ,
Q 2.	In AP: 3, 5, /	,9 , wn	at is common d	IITTerence?	
	(a) 2	(b) 3	(c) 4	(d) 5	
					Answer:- (a) 2
					Allswei:- (a) 2
Q 3.	What is co	mmon differer	nce of an AP: 3,	,3,3,3	?
	(a) 1	(b) 2	(c) 3	(d) 0	
					Answer:- (d) 0
Q 4.	How many	terms are the	re in AP: 3,5,7,	,9,11?	
	(a) 2		(c) 5		
	(=/ =	(3)	(0) 0	(4)	Answer:- (c) 5
0.5	Mhatia th	a last tarm of s	nn AD: 1 6 8 10	122	(-)
Q 5.			nn AP: 4,6,8,10		
	(a) 4	(b) 8	(c) 1	(d) 12	Angure (d) 12
					Answer:- (d) 12
Q 6.	Which is the	e next term of	an AP: 10,20,3	0,40	?
	(a) 10	(b) 20	(c) 50	(d) 55	

							Answer:- (c) 50
Q 7.	Which is the 3	rd term	of an	AP: 5,7	,9,1	1,13	?
	(a) 5	(b) 13		(c) 11		(d) 9	
							Answer:- (d) 9
Q 8.	If first term of (a) 2			commo (c) 5	on di	fference is (d) 7	3 then second term will be:-
							Answer:- (c) 5
Q 9.	What is the ne	ext term	of an A	AP: 5,7,	,9,11	L ,	?
	(a) 5					(d) 15	
	• •	` '		. ,		` '	Answer:- (c) 13
Q 10.	Common diffe	erence of	an AP	can be			
	(a) Positive	(b) Neg	gative	(c) Ze	ro	(d) All	
							Answer:- (d) All of these
Q 11.	What is comm	non diffe	rence	of an AF	P: 5,	3,1,-1	?
	(a) 4	(b) 0		(c) -2	2	(d) 1	
							Answer:- (c) -2
Q 12.	In an AP: 3,5,	□, 9,		, find t	he m	nissing tern	n?
	(a) 1	(b) 7		(c) 10		(d) 5	
							Answer:- (b) 7
Q 13.	In an AP: 1,2,	3,4,		, what i	s the	e 10 th term	?
	(a) 2					(d) 5	
							Answer:- (c) 10
Q 14.					n dif		4, then first term is
	(a) 4	(b) 2		(c) 6		(d) 8	
Q 15.	What is called	a finito	ΛDЭ				Answer:- (b) 2
Q 13.	(a) Which has			of tern	าร	(b) Inf	inite terms
	(c) equal terr					(d) mo	
					Ans	wer:- (a)	Which has finite number of terms
						Chapter-6	
Q 1.	All equilateral	_					(1) 0
	(a) Congruen	t	(b) Sir	nılar	(C)	Equal	(d) Corrosponding
02	What does the	symbol	~ renr	esents î)		Answer:- (b) Similar
α 2.		=	-			Equal to	(d) Corrosponding
	(1, 11 8 1		(-, -		(-)	-1	Answer:- (b) Similar
Q 3.	What does the	e symbol	≅ rep	resents	?		
	(a) Congruen	t	(b) Sir	nilar	(c)	Equal to	(d) Corrosponding
	• 11						Answer:- (a) Congruant
Q 4.	All squares are		/h\ Cir	nilar	(c)	Equal to	(d) Corresponding
	(a) Congruen	·	(D) 311	IIIIdi	(C)	Equal to	(d) Corrosponding Answer:- (b) Similar
Q 5.	All circle are						Answer: (b) Similar
-, -:	(a) Congruen	t	(b) Sir	nilar	(c)	Equal to	(d) Corrosponding
							Answer:- (b) Similar
Q 6.	If \triangle <i>ABC</i> \sim \triangle <i>I</i>	D <i>EF</i> the	$\frac{AB}{DE}$	=	••••		



Q 1.	, , , , , , , , , , , , , , , , , , , ,						
				_			
	(d) Acute Angled Triangle			Obtuse Angled Triangle Answer:- (a) Right Triangle			
				Allswei - (a)	ight mangle		
Q 2.	$\sin heta$ is equal to)?					
	Base	Pe	rpendicular	Perpendicı	ılar Hypotenuse		
	(a) Hypotenuse	- (b) -	ypotenuse	(c) Base	$\frac{ular}{Base}$ (d) $\frac{Hypotenuse}{Base}$		
				Answer:- (b)	Perpendicular Hypotenuse		
0.3.	$\cos \theta$ is equal to	, <u>?</u>		, ,	Hypotenuse		
Ψ.σ.	Base	- (b) <u>Pe</u> 1	rpendicular	Perpendici	ular (d) Hypotenuse		
	(a) Hypotenuse	(b)	ypotenuse	Base	Base		
				Answer:- (a)	$\frac{ular}{Base} \text{ (d) } \frac{Hypotenuse}{Base}$ $\frac{Base}{Hypotenuse}$		
Q 4.	$\tan \theta$ is equal to		rnendicular	Pernendi	rular Hynotenuse		
	(a) $\frac{Base}{Hypotenuse}$	(b) $\frac{Te}{H}$	Hypotnuse	(c) $\frac{1 er penan}{Base}$	$\frac{cular}{Base}$ (d) $\frac{Hypotenuse}{Base}$		
	71			Answer:- (c)	Perpendicular Base		
Q 5.	tan θ =				Base		
	(a) $\frac{\sin \theta}{\cos \theta}$ (I	$(\cos \theta)$	(c) $\frac{1}{1}$	(d) $\frac{1}{1}$			
	· · · cos θ	' sin θ	$\sin \theta$	Answer:- (a) $\frac{s}{c}$	in θ		
Q 6.	cot θ =			c	osθ		
Q 0.	(a) $\frac{\sin \theta}{\cos \theta}$ (1	n) <u>1</u>	(c) $\frac{1}{}$	(d) $\frac{1}{}$			
	$\cos \theta$	tan θ	$\sin \theta$	(d) $\frac{\cos \theta}{\cos \theta}$ Answer:- (b) $\frac{1}{\cos \theta}$	1		
0.7	What is the valu	o of sin 00 2		Answer:- (b) -	anθ		
Ų 7.			(a) ¹	(d) ¹			
	(a) 0 (I	o) 1	$(C) \frac{-}{2}$	(d) $\frac{1}{3}$	1		
0.8.	What is the valu	$e ext{ of } \cos 0^0 ext{ ?}$		Answer:- (a) (J		
Ψο.	(a) 0 (I		(c) $\frac{1}{2}$	(d) $\frac{1}{3}$			
	(3) 3	~, -	2	Answer:- (b) 1			
Q 9.	What is the valu	e of tan 0 ⁰ ?		(2)			
	(a) 0 (I	o) 1	(c) $\frac{1}{2}$	(d) $\frac{1}{3}$			
			. , 2	Answer:- (a) 0			
Q 10.	What is the valu	e of tan 45 ⁰	?				
	(a) 0 (I	o) 1	(c) $\frac{1}{2}$	(d) $\frac{1}{3}$			
			2	Answer:- (b) 1			
Q 11.	$sin^2\theta + cos^2\theta$	=?					
	(a) 0 (I	o) 1	(c) 2	(d) 3			
				Answer:- (b) 1			
Q 12.	What is the valu		_	1			
	(a) 0 (I	o) 1	(c) $\frac{1}{2}$	(d) $\frac{1}{\sqrt{2}}$			
				Answer:- (c) $\frac{1}{2}$	<u>.</u>		

Q 13.	What is the va	alue of cos $60^{ m o}$?				
	(a) 0	(b) 1	(c) $\frac{1}{2}$	(d) $\frac{1}{\sqrt{2}}$			
			2		er:- (c) $\frac{1}{2}$		
				AllSW	er (c) - 2		
			2.0				
Q 14.	What is the va	alue of 2 sin ² A	$A + 2 \cos^2 A$?				
	(a) 0	(b) 1	(c) 2	(d) 3			
					er:- (c) 2		
Q 15.	As degree of θ						
	(a) Decreses	(b) Inc	reases (c) Re		he same (d) None of these		
O 16	As degree of 6	g increases the	e value of cos f		er:- (b) Increases		
Q 10.	(a) Decreses				he same (d) None of these		
	(,	(3)	(0, 110		er:- (a) Decreses		
			Ch	apter-9			
Q 1.	The line draw				tion of the object is called		
	(a) Line of sig	ht (b) Horiz	ontel line (c)	_	of elevation (d) angle of depression		
0.3	T l l l	a tha hadaa			er:- (a) Line of sight		
Q 2.	_		tal line is called		Line of sight (d) Right angle		
	(a) aligie oi e	ievation (b) ang	gie of debressic		er:- (a) angle of elevation		
Q 3.	Name the ang	le between lin	e of sight and l		tal line when line of sight is below the		
	horizontal line?						
	(a) Acute ang	le (b) Right a	angle (c) angle	e of dep	ression (d) angle of elevation		
					er:- (c) angle of depression		
				apter-10			
Q 1.			o names of sam	=			
	(a) yes	(b) No	(c) Two dime	IISIOIIdi	shapes (d) Three dimensional shape Answer:- (b) No		
Q 2.	How many tar	ngents a circle	can have?		Allswer (b) No		
-, -	(a) 0		(c) Infinite	(d) 5			
	. ,				Answer:- (c) Infinite		
Q 3.		-	nt may touch t				
	(a) finite	(b) one	(c) two	(d) th			
0.4	A intercepting	z a circla in tur	nointe is callo	٨	Answer:- (b) one		
Q 4.	-	-	points is called (c) horizonta		 (d) lateral line		
	(a) tangent	(b) secarit	(c) Horizonta	II IIIIC	Answer:- (b) secant		
Q 5.	How many pai	rallel tangents	can be drawn t	o a circ	• •		
	(a) One	(b) Infinite			(d) Four		
					Answer:- (b) Infinite		
Q 6.	="		nd its tangent i				
	(a) Point	(b) Perpendic	cular (c) Po	oint of c	ontact (d) and point		
Q 7.	How many rac	dii are there in a	a circlo?		Answer:- (c) Point of contact		
Ų 7.	•			(d) In	finite		
	(3) 110 0110	(3) 111100	(5)	(4 / 111	Answer:- (d) Infinite		
Q 8.	How many tar	ngents can be t	here on a point	t on a ci	• •		
	(a) Infinite	(b) one	(c) two	(d) th	ree		

				Answer:- (b) one	
Q 9.		ngth of the tang (b) Not equal		om an external point to the circle? (d) 1 meter	
	(4) 694.4.	(3) 1100 040.01	(0) = 0	Answer:- (a) equal	
Q 10.	How many co	entre(s) are the	ro of two conce	• • •	
Q 10.	•	` '			
	(a) only one	centre (b) tw	o centre (c)	different centre (d) No centre	
				Answer:- (a) only one cen	tre
Q 11.	A tangent to	the circle at the	point of conta	nct is to the radius.	
	(a) perpendi	cular (b) dia	ameter (c)	median (d) mid-point	
				Answer:- (a) perpendicula	r
Q 12.	How many ci	rcle can pass th	rough three no	on collinear points?	
	(a) One	=	(c) None	(d) Infinite	
	(a) One	(8) 100	(6) 110116	Answer:- (a) one	
0 12	A diamotor is	to the	radius	Allswer: (a) one	
Q 13.				(4)	
	(a) twice	(b) thrice	(c) four tim	• • •	
				Answer:- (a) twice	
Q 14.	If radius of a	circle is 5cm. th	en diameter wi	ill be	
	(a) 8 cm	(b) 5 cm	(c) 10 cm	(d) 12 cm	
				Answer:- (c) 10 cm	
			Cho	apter-11	
Q 1.	Area of a circ	le is equal to		•	
<u> </u>	(a) $2\pi r$			(d) $\pi r l$	
	(a) 2111	(6) 211111	(6) 111	Answer:- (c) πr^2	
0.3	The simulation	anaa of siuolo io		Allswei (c) /t/	
Q 2.		ence of circle is		(1) 0 1	
	(a) πr^2	(b) $2\pi r$	(c) $l \times b$		
				Answer:- (b) $2\pi r$	
Q 3.	The perimete	er of circle is cal	led		
	(a) Circumfe	rence	(b) Area		
	(c) lateral su	ırface area	(d) diameter		
	. ,		` ,	Answer:- (a) Circumference	ce
Q 4.	The ratio of c	ircumference to	the diameter	• •	
٠	(a) 2:3		(c) 2:1		
	(a) 2.3	(6) 1	(C) 2. I		
0.5	MATERIA CONTRACTOR	- C 1 C	1-2	Answer:- (b) π	
Q 5.		of sector of a ci			
	(a) $\frac{\pi r \theta}{100}$	(b) $\frac{\pi r^2 \theta}{360}$	(c) $2\pi r$	(d) πr^2	
	180	360	•		
				Answer:- (b) $\frac{\pi r^2 \theta}{360}$	
Q 6.	Formula for t	he length of an	arc of a circle?	?	
		_			
	(a) ${360}$	(b) $2\pi r$	(C) 111 ⁻	(d) $\frac{180}{180}$	
				Answer:- (d) $\frac{\pi r \theta}{180}$	
0.7	Which of the	following is 2D	chana 2	` ′ 180	
Q 7.		following is 3D	•	(4)	
	(a) circle	(b) rectangle	(c) spnere	(d) square	
				Answer:- (c) sphere	
Q 8.		longest-chord c	f a circle?		
	(a) Raduis	(b) diameter	(c) centres	(d) tangent	
				Answer:- (b) daimeter	
Q 9.	How many ch	ords are there	of a circle?		
-	(a) 1		(c) centres	(d) infinite	
	-	(=, ===================================	(-) 5555	Answer:- (d) infinite	
				another (a) minime	

Q 10.	In how many	parts a circle is	s divided by it	s chord?
	(a) 1	(b) 2	(c) 3	(d) 4
				Answer:- (b) 2
0 11.	Part of a circl	e bounded by	chord and arc	of a circle is called
		(b) sector		
	. , .	,	. ,	Answer:- (a) segment
Q 12.	A sector is bo	unded betwee	n	
	(a) two chor	d(b) chord an	d diameter(c)	two diameter (d) two radii
				Answer:- (d) two radii
Q 13.	_	gment of a circ		
	(a) major se	gment (b)mii	nor segment	(c) chord (d) centre
				Answer:- (a) major segment
Q 14.		alternate name		. (1)
	(a) centre	(b) Ra	dius (c) ai	c segment (d)line
			C	Answer:- (c) arc segment
0 1	Write the for	mula for volum		hapter-12 ?
α1.				
	(a) 4717 ⁻	(b) $2\pi r^2$	(c) 5117-	
				Answer:- (d) $\frac{4}{3}\pi r^3$
Q 2.	The volume of	of an object is:		
	(a) Area	(b) capacity	(c) diamete	- · · ·
				Answer:- (b) capacity
Q 3.		area of a cubo		
	(a) $4a^2$	(b) $6a^2$	(c) $2(l \times l)$	$(b + b \times h + h \times l)$ (d) $(l \times b \times h)$
0.4	Mrita tha far	mula for valum	o of a cylinda	Answer:- (c) $2(l \times b + b \times h + h \times l)$
Q 4.	4	mula for volum		
	(a) $\frac{\pi r^2 n}{3}$	(b) 2π	(c) πr^2	
				Answer:-(d) $\pi r^2 h$
Q 5.		mula for curve		
	(a) $\pi r l$	(b) $\frac{1}{3}\pi r^2 h$	(c) $2\pi r$	(d) $\pi r^2 h$
				Answer:-(a) $\pi r l$
Q 6.	Lateral surfac	e area of a cyli	nder	
	(a) $\pi r^2 h$	(b) $2\pi rh$	(c) $\pi r l$	$(d) \frac{1}{3} \pi r^2 h$
				Answer:- (b) $2\pi rh$
Q 7.	Formula for t	he volume of a	cone	. ,
	(a) $\pi r^2 h$	(b) $2\pi rh$	(c) $\pi r l$	(d) $\frac{1}{\pi}\pi r^2 h$
	•	, ,	. ,	Answer:- (d) $\frac{1}{2}\pi r^2 h$
0.0				Answer:- (u) $\frac{1}{3}\pi n$
Q 8.		ce area of a cub		(-) 4 \((-i,d-)^2 \)
	(a) $l \times b \times l$	ι (D) Z	$\times n \times (l + b)$	(c) $4 \times (side)^2$ (d) $6 \times (side)^2$
0.0	Mhatic the f	ormula for the	volume of a o	Answer:- (c) $4 \times (side)^2$
Q 9.				(d) None of these
	(a) (Luge)	(b) (Luge)	(c) Luge	Answer:-(b) $(Edae)^3$

	(a) 1	(b) 2	(c) 3	(d) 4	
					Answer:- (b) 2
			CI	hapter-13	1
Q 1.	In a class-inte	rval the small n		•	erval is called
	(a) upper lim	nit (b) lower li	mit (c) s	size of clas	ss interval (d) class-mark
					Answer:- (b) lower limit
Q 2.	In a class-inte	rval, the larger	number in th	at class in	nterval is called
	(a) lower lim	it (b) upper	limit (c) r	nean	(d) median
• •					Answer:- (b) upper limit
Q 3.	Formula for th			$\sum f_{ij}$	r. r+1
	(a) $\pi r^2 h$	(b) upper limi	t - lower limit	$(c) \frac{\Sigma f b}{\Sigma f}$	$\frac{x_i}{x_i}$ (d) $\frac{x+1}{2}$
					Answer:- (c) $\frac{\sum f_i x_i}{\sum f_i}$
Q 4.	What is the size	ze of class inter	nal ?		ΣJi
				nit (c) $\frac{\sum f_i}{\sum f_i}$	$\frac{x_i}{x_i}$ (d) lower limit
	(a) apper iiiii	ic lower mine	(b) apper ini	_,	~
Q 5.	Formula for m	vodo		Answe	r:- (a) upper limit - lower limit
Q3.			·.v.	Γ <i>f</i> _ <i>f</i>	$(\frac{n}{r}-c.f)$
	(a) $\left(\frac{n+1}{2}\right)$ to	erm (b) $\frac{ZJ}{\Sigma}$	$\frac{l^{\lambda_l}}{f_i}$ (c) $l +$	$-\left[\frac{f_1-f_0}{2f_1-f_0-f_0}\right]$	$\left[\frac{1}{r_2}\right] \times h$ (d) $l + \left(\frac{\frac{n}{2} - c \cdot f}{f}\right) \times h$
			•	71 70 7	Answer:- (c) $l + \left[\frac{f_1 - f_0}{2f_1 - f_0 - f_2}\right] \times h$
Q 6.	Formula for m	nedian			$\lfloor 2f_1 - f_0 - f_2 \rfloor$
~		$\left(\frac{n}{2}\right)^{th}$ and $\left(\frac{n+1}{2}\right)$	th	f_{lb} $\sum f_{i}$	$i^{\chi}i$
	(a) mean or (2	$\frac{1}{2}$) and $\left(\frac{1}{2}\right)$	term	(b) $\frac{\sum f_i}{\sum f_i}$	· t
	(c) $l + \left[\frac{fi + \lambda}{2f_1 - f_2}\right]$	$\left \frac{\alpha i}{-f_{-}}\right \times h$		(d) l +	$\left(\frac{\frac{n}{2}-c.f}{f}\right) \times h$
	12/1 /0	723			Answer:- (d) $l + \left(\frac{\frac{n}{2} - c.f}{f}\right) \times h$
					Answer:- (a) $l + \left(\frac{1}{f}\right) \times n$
Q 7.	What is mode	of 2, 5, 3, 1,	3,7,3?		
	(a) 1	(b) 2	(c) 3	(d) 4	
					Answer:-(c) 3
					7. (c) 3
Q 8.	What is mean	of 2, 3, 4, ?			
	(a) 2	(b) 3	(c) 4	(d) 1	
					Answer:-(b) 3
					Allswei :-(b) 3
Q 9.	What is media	on of $2, 3, 5, 7$,9?		
	(a) 2	(b) 3	(c) 5	(d) 9	
					Answer:- (c) 5
Q 10.	Mode is the n	umher			(6)
~ ±0.			n times(b) v	which occ	cures minimum times
	(c) occurs on			none of th	
					r:- which occures maximum times

Q 10. How many heights of a cone are there?

Q 11.	Mode + 2 N	Mean =?			
	(a) Mode	(b) 3 Median	(c) Mean	(d) none of these
					Answer:- (b) 3 Median
	- (-) - (_ >		Chapter-1	4
Q 1.		$not E) = \dots$			
	(a) 0	(b) 1	(c) 2	(d) 4	
					Answer:- (b) 1
Q 2.	Probability of	of an event that o	cannot hap	pen is	
	(a) 0	(b) 1	(c) 2	(d) 3	
					Answer:- (a) 0
Q 3.	Probabilty o	f sure event is			
	(a) 0	(b) 1	(c) 2	(d) 3	
					Answer:- (b) 1
Q 4.	The probabi	Ity of an event is	greater th	an or equa	land less than or equal to
	(a) 1,2	(b) 2, 3	(c) 0, 1	(d) 1,	1
					Answer: - (c) 0, 1
Q 5.	4	0	•		y of getting a head or a tail
	(a) $\frac{1}{1}$	(b) $\frac{2}{3}$	(c) $\frac{6}{1}$	(d) $\frac{1}{2}$	1
					Answer:- (d) $\frac{1}{2}$
Q 6.	•	cards are there in			
	(a) 13	(b) 26	(c) 52	(d) 39)
					Answer:- (c) 52
Q 7.		of black colour i			
	(a) 4	(b) 8	(c) 13	(d) 26	5
					Answer:- (d) 26
Q 8.		of Red colour in			
	(a) 4	(b) 8	(c) 12	(d) 26	5
					Answer:- (d) 26
Q 9.	No. of face of	cards in a deck of	f playing ca	ird are	
	(a) 12	(b) 16	(c) 26	(d) 52	2
					Answer:- (a) 12
Q 10.					posite number is
	(a) $\frac{1}{3}$	(b) $\frac{1}{3}$	(c) $\frac{1}{2}$	(d) $\frac{1}{6}$	1
0 11	\\/h = \(\frac{1}{2} \cdot \cd	lioo ana +h	.+ +	. 	Answer:-(b) $\frac{1}{3}$
Q 11.	(a) $\frac{1}{2}$		(c) $\frac{1}{6}$	time, what $\frac{1}{12}$	t is the probability of getting a doublet
	2	(b) 3	6	12	

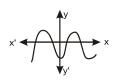
Answer:- (c)	<u>1</u>
at is probabi	lity

					Answer:- (c) $\frac{1}{6}$			
Q 12.	Digits 1,2,3,4	1,5,6,7,8,9 ar	e written on 9	9 cards. Wł	nat is probability of getting an odd			
		n a card is drav			, , , ,			
	(a) $\frac{4}{9}$	(b) $\frac{5}{9}$	(c) $\frac{1}{9}$	(d) $\frac{2}{3}$				
	9	,	9	3	Answer:- (b) $\frac{5}{9}$			
		Que	estions, rela	ating fill i	•			
				Chapter-1				
Q 1.	The prime fac		/	/ IV O				
	(a) 3×2	(b) 3×3	(c) 3×5	(a) 3 ×	4 Answer:- (c) 3 × 5			
Q 2.	H.C.F of 12 and	d 15 is			Allswer: (c) 5 × 5			
	(a) 5	(b) 3	(c) 4	(d) 1				
	_				Answer:- (b) 3			
Q 3.	$\sqrt{5}$ is a/an			(-):	and the second s			
	(a) Irrational	number (b) ra	itional numbe	er(c) prime	number (d) whole number Answer:- (a) Irrational number			
Q 4.	3 is a/an	number.						
			·	(c) ration	nal number (d) least prime number Answer:- (c) rational number			
Q 5.		o numbers = .		(a) ICM	VICM (4) HCE V 1			
	(a) HCF X H	LF (D) H	CF X LCM	(C) LCM	\times <i>LCM</i> (d) <i>HCF</i> \times 1 Answer:- (b) <i>HCF</i> \times <i>LCM</i>			
Q 6.	Number $7 \times 11 \times 13 + 13$ is							
	(a) composite number (b)prime number (c)perfect square (d)square number							
			Cho	pter-2	Answer:- (a) composite number			
Q 7.	Which of the following is a quadratic polynomial?							
	(a) $ax + b, a \neq 0$ (b) $ax^2 + bx + c, a \neq 0$							
	(c) $ax^3 + bx$	$c^2 + cx + d$, a	$\neq 0$ (d)	ax				
Q 8.	A guadratic p	olynomial has	mavimum	zoroos	Answer:- (b) $ax^2 + bx + c, a \neq 0$			
Q 0.	·	•						
	(a) 2	(0) 1	(c) 3	(d) 4				
					Answer:- (a) 2			
Q 9.	Sum of the ze	eroes of a quad	dratic polynor	$mial = -\frac{a}{a}$				
	(a) <i>c</i>	(b) <i>a</i>	(c) <i>b</i>	(d) No	one of these			
					Answer:- (c) b			
Q 10.	The product of			(<u> </u>			
	(a) <i>c</i>	(b) <i>a</i>	(c) <i>b</i>	(d) 1				
O 11	In a guadratic	s nolynomial I	nighost nowo	r of the yer	Answer:- (a) c			
Q 11.	In a quadration (a) One	, polynomiai, i (b) Two		d) Fo				
	· ,	. , -	· ,	(-, -	Answer:- (b) Two			
∩ 12	In the given g	ranh of nolyn	omial $v - n$ (γ) number	er of zeros is			

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

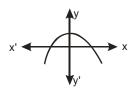
Answer:-(a) 1

- Q 13. In the given graph of polynomial y = p(x), number of zeros are
 - (a) 2
- (b) 3
- (c) 4
- (d) 1



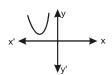
Answer:- (c) 4

- Q 14. In the given graph of polynomial y = p(x), number of zeros are
 - (a) 1
- (b) 2
- (c) 3
- (d) 4



Answer:- (b) 2

- Q 15. In the given graph of polynomial y = p(x), number of zeros are
 - (a) 1
- (b) 2
- (c) 0
- (d) 3



Answer:- (c) 0

Chapter-3

- Q 16. System of equations $a_1 x + b_1 y + c_1 = 0$, $a_2 x + b_2 y + c_2 = 0$ is called
 - (a) pair of quadratic equation
- (b) pair of linear equation in two variables
- (c) pair of cubic equation
- (d) pair of equation of four degree

Answer:- (b) pair of linear equation in two variables

- The equations 3x 5y = 20, 6x 10y = 40 hassolutions Q 17.
 - (a) many solution
- (b) one solution
- (c) no solution
- (d) only two solution

Answer:- (a) many solution

- Q 18. For unique solution of linear equations 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 19. Quadratic equation $ax^2 + bx + c = 0$, has two equal and real roots if
 - (a) D > 0
- (b) D < 0 (c) D = 0
- (d) D = 2

Answer:- (c) D = 0

- Q 20. The real roots of quadratic equation are not possible if
 - (a) D > 0
- (b) D < 0
- (c) D = 0
- (d) None of these

Answer:- (b) D < 0

Q 21. To find the roots of the quadratic equation, the quadratic formula is

$$x = \frac{1}{2}$$

- (b) b
- (c) a
- (d) -a

Answer:- (a) -b

- Q 22. Equation $x(2x + 3) = x^2 + 1$ is a
 - (a) linear equation (b) quadratic equation (c) Cubic equation (d) none of these
- Answer:- (b) quadratic equation
- Q 23. In quadratic equation $ax^2 + bx + c = 0$, formula for the discriminent $D = b^2$
 - (a) 2*ac*
- (b) 3ac
- (c) 4*ac*
- (d) *ac*

Answer:- (c) 4*ac*

- Q 24. Quadratic equation $ax^2 + bx + c = 0$, has two different- real roots if
 - (a) D > 0
- (b) D < 0 (c) D = 0
- (d) D = 1

Answer:- (a) D > 0

					Cilupter-		
Q 25.	Fomula for th (a) n	e n^{th} term of (b) $n-1$					
						Answer:- (b) $n - 1$	
Q 26.	Write the mis	sing term of a	n AP: 18	8, 13	3,, 3		
	(a) 8	(b) -5	(c) 10)	(d) 15	5	
						Answer:- (a) 8	
Q 27.	In an AP: 2, 4 (a) 2	, 6, 8, tr (b) 4			lifference i (d) 1	IS	
	(a) L	(D) 4	(C) —2	4	(u) 1	Answer:- (a) 2	
Q 28.	The first term	and common	differen	ice o	f an AP:2,7	• •	
	(a) 2,5	(b) 2, 7	(c) 2,	- 5	(d) -2		
0.20	The sum of m	tarms of an A	Durboso	first	torm is la	Answer:- (a) 2,5	
Q 29.	$S_n = \frac{n}{2} \left[\cdots \cdots \right]$		P whose	IIrst	term is a	' and common difference is ' d ' is	
	$S_n = \frac{1}{2} []$		(c) 2 (a	(d) 4. (7	
	(a) u	(b) 5 a	(C) 2 (ı	(u) + t	Answer:- (c) 2 a	
Q 30.	If last term of	an AP is l , the	en sum o	f its	all terms is	$S S = \frac{n}{2} (\dots)$	
	(a) $a+d$						
						Answer:- (b) $a+l$	
0.24	مال مالم				Chapter-6	5	
Q 31.	All circles are. (a) Congruen		imilar	(c)	Faual	(d) None of these	
	(a) Congruen	(6) 3	iiiiiai	(0)	Lquui	Answer:- (b) Similar	
Q 32.	All squares ar	e				` '	
	(a) Congruen	t (b) S	imilar	(c)	Equal	(d) None of these	
O 22	All aquilatora	l triangles are				Answer:- (b) similar	
Q 55.	All equilatera (a) Congruen	•	imilar		Foual	(d) Not equal	
	(1)	(3)		(-)		Answer:- (b) Similar	
Q 34.						ar if (1) corresponding angles	
	are(2) corresponding sides are (a) Equal, proportional (b) Proportional, equal						
	(a) Equal, pro (c) Equal, equ	-			=	nal, equal nal, proportional	
	(c) Equal, equ			(ω)	Порогио	Answer:-(a) Equal, proportional	
Q 35.	,	Ą					
	/			A /^			
				2.5cm		triangles are	
	5 \ 800	,	ьс в	80°		С	
	В ——	6cm	.C		3cm		
	(a) Conguren	t (b) Si	milar	(c)	Equal	(d) None of these	
						Answer:- (b) Similar	
Q 36.	_		-			ortional, are	
	(a) Conguren	ι (b) Si	milar	(C)	Equal,	(d) None of these Answer:- (b) Similar	
Q 37.	If a line is drav	wn parallal to	one side	of a	triangle to	o intersect the other two sides in	

distinct points, other two sides are divided in the same ratio. This theorem is called....

					Answer:- (b) Thales theorem
Q 38.	In the fig DE	$E \parallel BC \text{ and } \frac{A}{D}$	$\frac{D}{B} = \dots$		DÂ E
	(a) $\frac{AB}{AC}$	(b) $\frac{DE}{BC}$	(c) $\frac{AE}{EC}$	(d) $\frac{AC}{AE}$	B C
					Answer:- (c) $\frac{AE}{EC}$
				Chapter-7	
Q 39.	The co-ordina	_		(1) (0.0)	
	(a) (U,U)	(b) (0,1)	(c) (1,0)	(a) (2,0)	Answer:- (a) (0,0)
					Allswer (a) (0,0)
Q 40.	The distance f	formula for the	e points $A(x)$	(y_1, y_1) and	d B (x_2, y_2) is $\sqrt{(x_2 - x_1)^2 + (\dots)^2}$
	(a) $v_2 - 1$	(b) $y_1 - 1$	(c) $v_2 - v_4$	(d) v	$v_1 - v_2$
	(u) y ₂ 1	(0))1 1	(0) 92 91	(4)	Answer:- (c) $y_2 - y_1$
Q 41.	Co-ordinates	of a point lying	g on $x - axis$	s are	() 72 71
	(a) $(x, 0)$	(b) $(0, x)$	(c) $(0,0)$	(d) (
					Answer:- (a) $(x, 0)$
Q 42.	Co-ordinates				0)
	(a) $(0,y)$	(b) $(y, 0)$	(c) $(0,0)$	(d) ((x,0) Answer:- (a) $(0,y)$
0.42	Co oudinotos	af maid maint a	$x_1 = (x_1 + \dots y_1)$	+	Answer: (a) $(0, y)$
Q 43.	Co-ordinates		\ <u>Z</u>	2 /	4
	(a) x_2 , y_1	(b) x_2, y_2	(c) $(0,0)$	(a) 1	
0.44	The co-ordina	ites of a noint	dividing the li	ne ininina	Answer:- (b) x_2 , y_2 g the points $A(x_1, y_1)$ and $B(x_2, y_2)$ in
Q 77.		$\left(\frac{mx_2+nx_1}{mx_2},\frac{mx_2}{mx_2}\right)$		ine joining	the points $H(x_1, y_1)$ and $B(x_2, y_2)$ is
		(b) $m+n$,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(d) m	$n^2 - n^2$
	(a) $m - n$	(b) $m + n$	(c) $n - m$	(u) 11	m-n Answer:- (b) $m+n$
Q 45.	The distance l	between origir	n and (x, y) is		Table (a) The Table
		(b) $\sqrt{x^2 + 0}$	-		(d) <i>xy</i>
	. ,		. , •		Answer: - (c) $\sqrt{x^2 + y^2}$
			Chante	er- 8, 9	, , , ,
0.46	$\sin 30^o =$. 6,7	
Q 40.		_			
	(a) $\frac{1}{2}$	(b) $\sqrt{\frac{3}{2}}$	(c) 1	(d) 2	
		·			Answer:- (a) $\frac{1}{2}$
Q 47.	$\sin 60^{o} =$				2
	(a) $\frac{1}{2}$		(c) 0	(4) 1	
	(a) $\frac{1}{2}$	(b) ${2}$	(c) 0	(d) 1	√ <u>3</u>
					Answer:- (b) $\frac{\sqrt{3}}{2}$
Q 48.	$\cos 60^o = \dots$				
	(a) $\frac{1}{2}$	(h) $\frac{\sqrt{3}}{}$	(c) 1	(d) 0	
	2	2	(0) 1	(ω) 0	

(b) Thales theorem

(d) Non-Basic proportionality theorem

(a) Pythagoras theorem(c) Similarity theorem

			Answer:- (a) $\frac{1}{2}$	
Q 49.	$\cos 30^o = \dots$		_	
	(a) $\frac{1}{2}$ (b) $\frac{\sqrt{3}}{2}$	(c) 1	(d) 2 Answer:- (b) $\frac{\sqrt{3}}{2}$	
O 50	$\tan 30^{o} = \dots$		2	
Q 50.	1	(c) 1	(d) 3	
	(3) $\sqrt{3}$	(6)	1	
			Answer:- (a) $\frac{1}{\sqrt{3}}$	
Q 51.	$\tan 60^o = \dots$			
	(a) $\frac{1}{\sqrt{3}}$ (b) $\sqrt{3}$	(c) 1	(d) 2	
	√3	. ,	Answer:-(b) $\sqrt{3}$	
Q 52.	$sin^2\theta + cos^2\theta = \dots$		Allower: (b) V5	
	(a) -1 (b) 0	(c) 1	(d) 2	
			Answer:- (c) 1	
Q 53.	$cosec^2\theta - cot^2\theta = \dots$			
	(a) -1 (b) 1	(c) 0	(d) $\frac{1}{2}$	
			Answer:- (b) 1	
Q 54.	$sec^2\theta - tan^2\theta = \dots$		1	
	(a) 1 (b) -1	(c) 0	(d) $\frac{1}{3}$	
	Dornandicular		Answer:- (a) 1	
Q 55.	$\sin \theta = \frac{Perpendicular}{\dots}$			
	(a) Hypotenuse	(b) Base	(c) Perpendicular	(d) 1
0.56	cos θ =		Answer:- (a) Hypotenuse	
Q 30.	$\cos \theta = \frac{}{\text{Hypotenuse}}$ (a) Hypotenuse	(b) Rasa	(c) Perpendicular	(d) 1
	(a) Trypoteriuse	(b) Duse	Answer:- (b) Base	(u) 1
Q 57.	$\tan \theta = \frac{Perpendicular}{2}$		(1)	
•		(b) Base	(c) Perpendicular	(d) 1
		` ,	Answer:- (b) Base	` ,
Q 58.	$\sin^2\theta=1-\dots$			
	(a) $tan^2\theta$ (b) $sec^2\theta$	(c) $cos^2\theta$	(d) $cot^2\theta$	
			Answer:- (c) $cos^2\theta$	
-	20 4 .			
Q 59.	$\sec^2\theta = 1 + \dots$	(-)20	(4) -1.20	
	(a) $tan^2\theta$ (b) $sec^2\theta$	(C) COS-H	(a) $sin^{-\theta}$ Answer:- (a) $tan^{2}\theta$	
			Answer: (a) tant o	
O 60	$sin45^0 = \cdots$			
Q 00.	(a) $\frac{1}{\sqrt{2}}$ (b) 1	(c) $\frac{1}{}$	(d) 2	
	$\sqrt{2}$	2	1	
0.64	450		Answer:- (a) $\frac{1}{\sqrt{2}}$	
Q 61.	$\cos 45^0 = \cdots \cdots$	(-) 1	1 (ادر	
	(a) 1 (b) $\frac{1}{\sqrt{2}}$	(C) =	(a) ./2	

					Answer:- (b)	$\frac{1}{\sqrt{2}}$
Q 62.	$tan45^0 =$					V 2
	(a) $\frac{1}{2}$	(b) $\frac{1}{\sqrt{2}}$	(c) 1	, -	Answer:- (c)	1
Q 63.			+ ()² icular (c) Hy	poten	use (d) 1	Perpendicular
Q 64.		$an^2A = \dots$				
	. ,	(b) 9	(c) 0		Answer:- (b)	9
Q 65.	$\frac{1+tan^2A}{1+cot^2A} = \dots$	•••••				
	(a) 1	(b) cot^2A	(c) tan^2A		(d) $sin^2 A$ Answer:- (c)	tan^2A
Q 66.	$cosecA = \frac{1}{\dots}$					
		(b) cosA	(c) tanA		(d) <i>cotA</i> Answer:- (a)	sinA
Q 67.	$secA = \frac{1}{\dots}$	(1)	() ()		(1)	
		(b) cosA	(c) tanA		(d) <i>cotA</i> Answer:- (b)	cosA
Q 68.	$cotA = \frac{1}{\dots}$	(b) and 1	(a) tan 1		(d) aot 1	
	(d) SIIIA	(D) COSA	(c) tanA		(d) <i>cotA</i> Answer:- (c)	tanA
			Chapter-	10		
Q 69.			ne circle at (c) 0		nt(s).	
					Answer:- (a)	1
Q70.		•	two points is ca (c) Intesecting	line		
Q 71.	A circle can ha	ave nu (b) 0	ımber of paralle (c) Infinite		• •	Securit
			, ,		Answer:- (c)	Infinite
Q 72.			d a tangent is cal ant point	(c) Cor	nmon point	(d) Origin Point of contact
Q 73.	_		is called (c) Secant (•		Tome or contact
0.74	Tanganta draw	un from an out	arnal naint ta th		Answer:- (b)	
Ų /4.	-		ernal point to the (c) less or more	е	areIn le (d) none of th Answer:- (a)	nese
Q 75.	tange	ent(s) can be dr	awn from a poir			-quui
	(a) One	(b) Two	(c) None	(d) Thre	ee Answer:- (c)	None

Q 76.	From a point (a) Only one	on a circle (b) Two	tangent/ t (c) None	angents (d) Th				
	(,,	(0)	(0)	(,	Answer:- (a) Only one			
Q 77.	From an exter	nal point to the	e circle, maxi	mum	tangent/ tangents can be drawn.			
	(a) Only one	(b) Two	(c) None	(d) Th	ree			
					Answer:- (b) Two			
Q 78.					contact to the radius.			
	(a) 30^{0}	(b) 0^{0}	(c) 90°	(d) 60				
					Answer:- (c) 90°			
Q 79.	In the fig, a quadrilateral is drawn touching a circle externally then							
	$AB + CD = \dots$		(a) DC D	C (4) 41	D I BC			
	(a) $AD + BC$	(b) $BC + AB$	(c) $DC + DC$	L (U) AL	B + BC er:- (a) $AD + BC$			
Q 80.	Δ narallelogra	ım circumseribi	ng the circle					
Q 00.	(a) Square	(b) Rectangle	_		A F B			
	(a) square	(b) Nectarigic	(c) momba	.s (u) 110	Answer:- (c) Rhombus			
					(6)			
			C	hapter-1	1			
Q 81.					the length of an arc is			
	(a) $\frac{\theta}{}$ (πr)	(b) $\frac{\theta}{360}$ (2 π	$(c) = \frac{\epsilon}{c}$	$\frac{9}{-} (\pi r^2)$	(d) $\frac{(2\pi r^2)\theta}{}$			
	360	360	36	60				
					Answer:- (b) $\frac{\theta}{360}$ (2 πr)			
Q 82.					the area of the sector is			
	(a) $\frac{\theta}{720} (\pi r^2)$	(b) $\frac{\theta}{360}$ (2 π	(r^2) (c) $\frac{c}{36}$	$\frac{9}{60} (\pi r^2)$	(d) $\frac{3h^{7-6}}{360}$			
					Answer:- (c) $\frac{\theta}{360}$ (πr^2)			
Q 83.	If the circumfi	rence of a circle	e and area of	the circle	e are numerically equal, then the radius			
•	of the circle is				, , ,			
	(a) Two units	(b) π units	(c) 4	1 units	(d) 5 units			
	(a) Two arries	(b) it diffes	(0)	Tuilles				
	circumfei	rence of circle			Answer:- (a) Two units			
Q 84.	$\pi = \frac{circumfer}{\dots}$							
	(a) volume	(b) diameter	(c) area	(d) ra				
			2		Answer:- (b) diameter			
Q 85.		$ajor\ sector = 7$			ata a (al) a casa (factor a casa a casa)			
	(a) radius	(b) diameter	(c) area of	minor se	ctor (d) area of minor segment			
0 06	The minute ha	and of the class	cover an ar	agla of	Answer:- (c) area of minor sector			
Q 86.	(a) 5°	(b) 60°		(d) 50	in one minute			
	(a) 3	(5) 00	(6) 0	(u) 50	Answer:- (c) 6°			
Q 87.	Area of segme	ent = Area of c	orresponding	sector -	` '			
	Area of segment = Area of corresponding sector - area of corresponding							
	,	. , .	. ,	` ,	Answer:- (b) triangle			
					· · ·			
				hantor 1	2			
Q 88.	Circumference	es of a circle of		hapter-1	2			
Q 00.		(b) $2\pi r$		(d) 3 ₇	rr			
	()	(~, =,	(0) 1701	(4) 57	Answer:- (b) $2\pi r$			
O 89	If r is radius a	nd <i>h</i> is height o	f the cylinder	then vo	lume of cylinder is			

	(a) $2\pi rh$	(b) $2\pi r^2 h$	(c) $\pi r^2 h$	(d) 3π	
0.00	If wis wadius as	ad b is baight a	f cana than wal	uma af	Answer:- (c) $\pi r^2 h$
Q 90.		nd h is height o			
	(a) $\pi r l$	(b) $\frac{1}{3}\pi r^2 h$	(c) $\pi r^2 h$	(d) 2π	4
					Answer:- (b) $\frac{1}{3}\pi r^2 h$
Q 91.					d surface area of cone is
	(a) $\pi r l$	(b) $2\pi r^2$	(c) πr^2	(d) 3π	
0.00	if wis madine of				Answer:- (a) $\pi r l$
Q 92.		f sphere then it	_	, ,, 2	3
	(a) $4\pi r^2$	(b) $2\pi r^2$	(c) $\frac{\pi}{3}\pi r^3$	(d) $\frac{1}{3}\pi$	
					Answer:- (c) $\frac{4}{3}\pi r^3$
Q 93.		f sphere then it			
	(a) $4\pi r^2$	(b) $2\pi r^2$	(c) $3\pi r^2$	(d) πr^2	_
0.04	16		la i a Cara Parala a d	9 . 1	Answer:- (a) $4\pi r^2$
Q 94.					ateral surface area is
	(a) $\pi r l$	(b) $2\pi rh$	(c) $\pi r^2 h$	(d) $-\pi$	
					Answer:- (b) $2\pi rh$
Q 95.	Volume of a (cuboid is	(b) 2(1 + b) x	h	
	(a) <i>lbh</i>	(n+hl)	(b) $2(l+b) \times \sqrt{12+l+2}$		
	(c) $Z(lb + bh)$	l + ni)	(a) $\sqrt{l^2 + b^2}$	⊢ <i>n</i> -	Answer:- (a) lbh
Q 96.	Lateral surfac	ce area of a cub	noid is		Allswei:- (a) tbit
Q 30.	(a) <i>lbh</i>	,c a. ca o. a cas	(b) $2(l+b) \times$	h	
		(l+hl)			
		,			Answer:- (b) $2(l+b) \times h$
Q 97.	The volume o	of a cube is			
	(a) $a \times a \times a$	(b) $4 \times a >$	< a (c) 6 ×	$\langle a \times a \rangle$	• •
					Answer:- (a) $a \times a \times a$
0.00	The total accept	fa.a. a.a.a af a a			
Q 98.		face area of a c (b) $4 \times a >$		(a × a	$(d) a^2$
	$(a) a \times a \times a$	(5) 4 × α ×	(0)	· u × u	Answer:- (c) $6 \times a \times a$
			Chapte	r-13	
Q 99.	3 Median =	+ 2 Mea	ın		
	(a) Medien	(b) Mode	(c) Mean	(d) Fre	•
		l liit !			Answer:- (b) Mode
Q 100.	Class mark = $\frac{u}{}$	pper class limit+	tower class timit		
		_			
	(a) 1	(b) 2	(c) 3	(d) 4	
	,	f -f			Answer:- (b) 2
Q 101.	Mode = $l + \left(\frac{1}{2}\right)$	$\left(\frac{f_1 - f_0}{2f_1 - f_0 - f_2}\right) \times h v$	vhere l is		
	•	it of modal class			
	(b) Upper limit	t of modal class	5		
	(c) Length				
	(d) Breath				

Answer:- (a) Lower limit of modal class

Q 102.	Madian = l +	$\frac{\frac{n}{2}-c.f}{f} \times h \text{ who}$	ere 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	ive frequency (DI CIASS S	succeed	iing the	median ciass
Q 103.	Formula for th	ne computation	of mea	n by ste	ep devia	by of class preceding the median class ation method is
						Answer:- (a) $\bar{x} = a + \frac{\sum f_i u_i}{\sum f_i} \times h$
				Chapte	r-14	277
Q 104.	$P(E) + P(\overline{E})$		(-) 2		/ al \	
	(a) 1	(b) 2	(C) 3		(a) 4	Answer:- (a) 1
Q 105.	The Probabilit	y of an event is	greate	r than o	r equal	toand less than or equal to
	(a) -1,1		(c) 1,2		(d) -1,-	
0.400	The Buckelin					Answer:- (b) 0,1
Q 106.		=	nat is ce			n is such an event is called ble event
	(a) 1, sure eve (c) 0, possible					ole event
	(0, 0, 1, 000			(, -,		Answer:- (a) 1, sure event
Q 107.	Which numbe	r cannot be the	e probal	oility of	an evei	nt?
	(a) $\frac{2}{3}$	(b) 15%		(c) -1	.5	(d) 0.2
	3					Answer: - (c) -1.5
Q 108.	$P(E) = \frac{Number}{\Box}$	er of outcomes fo	ivourabl	e to E		
		f outcomes not			E	
		all impossible				
	` '	f outcomes fava all possible ou				
	(u) Number of	ali possible ou	tcomes		r:- (d) N	Number of all possible outcomes of E
Q 109.	In a deck of 52	cards, numbe	r of face			•
	(a) 8	(b) 12	(c) 16		(d) 4	
						Answer:- (b) 12
Q 110.	A coin is tosse					id is
	(a) 0	(b) $\frac{1}{2}$	(c) $\frac{1}{3}$		(d) $\frac{-}{4}$	4
						Answer:- (b) $\frac{1}{2}$
Q 111.	A die is throw					
	(a) 1	(b) 0	(c) $\frac{1}{6}$		(d) $\frac{1}{5}$	
						Answer:- (c) $\frac{1}{6}$
						Ü
Q 112.	The sum of the	e probability of	all elen	nentary	_	of an experiment is
	(a) 0	(b) 2	(c) 1		(d) $\frac{1}{2}$	
	4 -	. <u>.</u> -		_		Answer:- (c) 1
Q 113.	If $P(E) = 0.9$ (a) 1	then $P(E) = \lfloor \frac{1}{2} \rfloor$	/s\ 0.4		(4) 0 0	
	(g) T	ט (מ)	(c) 0.1		(d) 0.9	Answer:- (c) 0.1
						7.1.5Wei. (c) 0.1

- Q 114. A box contains 5 red marbles, 8 white marbles and 4 green marbles. What is the probability of getting a red marble if a marble is drawn at random from the box.
- (a) $\frac{5}{17}$ (b) $\frac{8}{17}$ (c) $\frac{4}{17}$ (d) $\frac{5}{17}$

Answer:- (a) $\frac{5}{17}$