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- 8. Write a linear equation in two variables and find three solutions for it.
- **9.** The four angles of a quadrilateral are in the ratio of 2 : 3 : 4 : 6. Find the measure of each angle of the quadrilateral.

SECTION – III

Note: i) Answer All questions.

ii) Each question carries 4 marks.

iii) Each question has an internal choice.

10. a) When a polynomial $2x^3 + 3x^2 + ax + b$ is divided by (x - 2) leaves remainder 2 and (x + 2) leaves remainder -2. Find a and b.

(**OR**)

- **b**) Find the value of $\sqrt{7}$ up to six decimal places by long division method.
- **11.** a) Show that (x + 4), (x 3) and (x 7) are factors of $x^3 6x^2 19x + 84$.

(OR)

- **b**) $\triangle ABC$ is an isosceles triangle in which AB = AC. Side BA is produced to D such that AD = AB. Show that $\angle BCD$ is a right angle.
- 12. a) Write the quadrant in which the following points lie.

		(OR)
vii) (2021, 2022)	viii) (0, -2022)	
iv) (-2021, -2022)	v) (0, 2022)	vi) (-2022, 0)
i) (2022, 0)	ii) (2022, –2021)	iii) (-2022, 2021)

- b) The opposite angles of a parallelogram are $(3x 2)^{\circ}$ and $(x + 48)^{\circ}$. Find the measure of each angle of the parallelogram.
- 13. a) Visualize 6.174 on number line, using successive magnification.

(**OR**)

b) Draw the graph of the equation 3x + 4y = 12. Find from the graph the value of y when x = 1.

Tin	ne: 30 Minutes	PA	RT - B	Marks: 1	.0
Inst	tructions:	A			
i)	Answer All the questions.			$20 \times \frac{1}{2} = 10$	
ii)	Each question carries $\frac{1}{2}$	mark.		2	
iii)		tions choose the	correct answer and w	rite the corresponding lette	er
iv)	Marks are not awarded fo	or over writing an	swers.		
SECTION – IV					
14.	A rational number between	5 and 6 is		()
	A) $\frac{9}{2}$ E	(a) $\frac{10}{2}$	C) $\frac{11}{2}$	D) $\frac{12}{2}$	
15.	$(2022 + \sqrt{2})(2022 - \sqrt{2})$	is number.		()
	A) rational B) irrational	C) transcendental	D) can't be determined	
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 $4 \times 4 = 16$

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16.	Give an example for tra	anscendental number.				
17.	Match the following.				()
	Group - A	Group - B				
	i) $(\sqrt{a} + \sqrt{b})(\sqrt{a} - \sqrt{b})$	$=$ () a) a + b - 2\sqrt{a}	ıb			
	ii) $\left(\sqrt{a} + b\right)^2 =$	() b) a – b				
	· · · · ·	() c) $a + b^2 - 2$	ab			
	A) i-c, ii-a, iii-b	B) i-b, ii-c, iii-a	C) i-a, ii-b, iii-c	D) i-a, ii-c, iii-b		
18.		ial $3x^6y^3 + 6x^3y^2 - 1$ is			()
	A) 3	B) 6	C) 5	D) 9		
19.	The coefficient of x^2 in	(2x - 8)(7 - 3x) is			()
	A) 2	B) 3	C) 6	D) –6		
20.	If 2 is a zero of the poly	ynomial $x^2 - kx + 8$, then	k =		()
	A) 6	B) 3	C) 2	D) 8		
21.	The distance between (-1, 5) and $(x, 5)$ is 8 units	s. Then the value of x is .		()
	A) –9 or 9	B) –7 or 9	C) –9 or 7	D) -7 or -9		
22.	If the distance of a point is denoted by	nt from X - axis is 8 units	and its distance from Y -	- axis is 3 units then t	the po (oint)
	A) (8, 3)	B) (-8, 3)	C) (-3, 8)	D) (3, 8)		
23.	If $x < 0$, $y > 0$ then the	point (-x, -y) lies in	quadrant.		()
	A) 1 st	B) 2 nd	C) 3 rd	D) 4 th		
24.	If (a, 1) lies on the grap	bh of $3x - 2y + 4 = 0$, then	n a =		()
	$A) - \frac{2}{3}$	B) $\frac{2}{3}$	C) $\frac{3}{2}$	$D) - \frac{3}{2}$		
25.	Which of the following	g is not a solution of the li	near equation $x + 2y = 4^{\circ}$?	()
	A) (2, 0)	B) (0, 2)	C) (1, 1)	D) (-2, 3)		
26.	Which of the following	equation has graph paral	lel to Y – axis?		()
	A) y = -2	B) $x - y = 2$	C) x = 1	D) $x + y = 2$		
27.	Assertion: There are in	finite number of lines whi	ich passes through (2, 14)).	()
	Reason: A linear equation in two variables has infinitely many solutions.					
	A) Both assertion and reason are true and reason is the correct explanation of assertion.					
	B) Both assertion and reason are true but reason is not the correct explanation of assertion.					
	C) Assertion is true but					
	D) Assertion is false bu					
28.		$AC = 5 \text{ cm and } \angle A = 50^{\circ}$		D) (50	()
	A) 35°	B) 80°	C) 40°	D) 65°	,	
29.	-	is not a criterion for con		D) 696	()
	A) SSA	B) SAS	C) ASA	D) SSS		
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30.	The angles of a triang	gle are in the ratio 2 : 1 : 3	3, then the triangle is a	triangle. ()
	A) equilateral	B) isosceles	C) acute angled	D) right angled
31.	A quadrilateral havin	g only one pair of opposit	e sides parallel is called a	ı ()
	A) square	B) rhombus	C) trapezium	D) parallelogram
32.	The adjacent angles of	of a parallelogram are in t	he ratio 2 : 3, then the ang	gles are ()
	A) 72°, 108°	B) 90°, 180°	C) 36°, 144°	D) 52°, 144°
33.	The length and bread	th of a rectangle are in the	e ratio 4 : 3. If the diagon	al measures 25 cm. ()
	Then the perimeter of	f the rectangle is ci	n.	
	A) 58	B) 70	C) 60	D) 80
		ANS	SWERS	
		PA	RT – B	
14-0	C; 15-A; 16-π; 17-B; 1	8-D; 19-D; 20-A; 21-B; 2	2-D; 23-D; 24-C; 25-A; 2	26-C; 27-B; 28-D; 29-A; 30-D;
	С; 32-А; 33-В.			, -, - , - , - ,
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