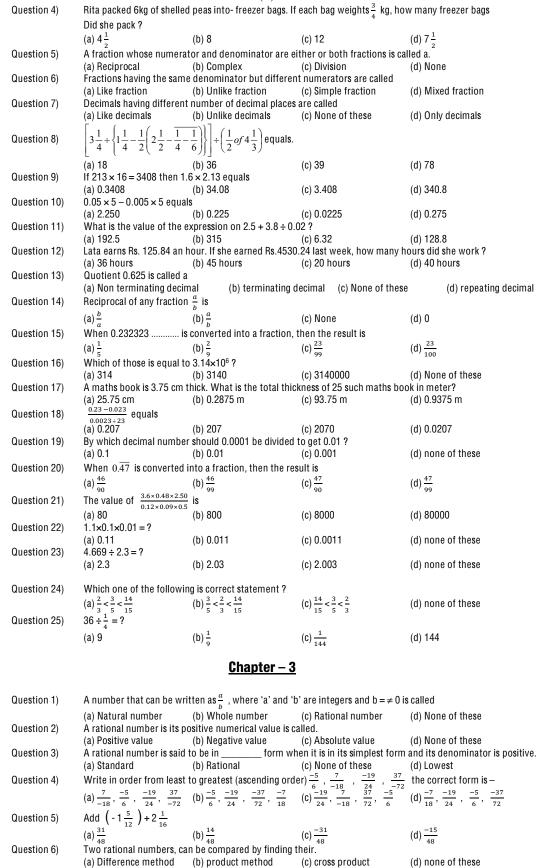
# 1 (vii) maths Multiple Choice Questions (MCQs)

CLASS: VII SUBJECT: MATHS

### Chapter - 1

Question 1)		ive numbers, the natural n					
0 0)	(a) negative numbers (b) positive integers (c) rational numbers (d) Natural numbers						
Question 2)	The additive inverse of an	•	(2) 2	(4)			
Question 3)	(a) 1 Multiplication distributes	(b) 0 over addition and subtract	(c) a	(d) – a			
Question o)	(a) Distributive Property		(c) Closure property	(d) Associative property			
Question 4)		er is the distance between					
,	(a) Integer (b) absolute value (c) closure property (d) Identity property						
Question 5)		ır final exam worth 40 mar					
grammar and gave 7 bonus points for creativity. Which expression does not represent your final score?							
	(a) $40 - 12 + 7$	(b) 40+(-12)+7	(c) $ 40  +  -12  +  7 $	(d)   40    -   -12  +  7			
Question 6)				d it into 6 glasses and froze			
	the juice to -2°C. What is $1$ (a) -4°C	the change in temperature	•	(4) 1000			
Question 7)	Which of the following pro	(b) -12°C	(c) 4 <sup>0</sup> C	(d) 12 <sup>0</sup> C			
Question 1)	(a) $(-8) \times 2 \times 5 \times (-4)$		(c) 8×(-2)×5×(-4)	(d) 8×(-2)×(-5)×4			
Question 8)				the total amount of money			
,	You have after 8 weeks?	-		-			
	(a) Rs.300	(b) Rs.600	(c) Rs.550	(d) Rs.700			
Question 9)	The value of 6÷(-1) does n		(a) 1 and 10	(d) 7 and 7			
Question 10)	(a) 0 and -10 Which of the following is i	(b) -3 and -12	(c) -4 and 10	(d) -7 and 7			
Question 10)	(a) $24 \div (-6) > (-25) \div 5$	(b) 0÷(-8)+11=0÷(100)+11	(c) 8÷(-4)-1>8÷4-1	(d) (-100)÷25÷(-1)=100÷(-25)÷(-1)			
Question 11)		simplification is negative?		(a) (100):20:(1)=100:(20):(1)			
,	(a) -10-(-6)+4	(b) [3+(-15)]÷4	(c) $-16 \div [4 \times (-2)]$	(d) (2-8)÷(-2)×3			
Question 12)		attern -48, -33, -18					
	(a) 15	(b) 3	(c) -3	(d) 0			
Question 13)	-48×116 is not the same a		(a) ( 40 0) ddC	(4) 40 40 400			
Question 14)	(a) -48×(100+16) Which of the following is		(c) (-40-8)×116	(d) -48×16+100			
Question 14)	(a) 40+(-45)	(b) (-57)-(-52)	(c) (-5)×(-1)	(d) 80÷(-16)			
Question 15)		tegers with the same sign i		(4) 331( 13)			
,	(a) positive	(b) negative	(c) none of these	(d) 1			
Question 16)		addition and subtraction a					
0 .: 17)	(a) Identity property	(b) Closure Property	(c) Additive Inverse	(d) None of these			
Question 17)	The value of $(-4) \times (-2) \times 8$ (a) 64		(c) - 64	(d) None of these			
Question 18)		(b) 20 'C every hour for 6 hours. \					
Quostion 10)	(a) -12°C	(b) 0°C	(c) 12°C	(d) None of these			
Question 19)	If $36 \div a = -9$ then the value		(-)	(1)			
	(a) 4	(b) -4	(c) 0	(d) 2			
Question 20)	By how much does 2 exce			4 D =			
Ougstion (11)	(a) -1	(b) 1	(c) -5	(d) 5			
Question 21)	On subtracting -13 from – (a) -21	(b) 21	(c) 5	(d) -5			
Question 22)	Which of the following sta		(0) 0	(d) 0			
,	(a) - 11 > - 8	(b) - 11 < -8	(c) - 11 and - 8 cannot co	ompared (d) None of these			
Question 23)	The additive inverse of – 6	S is					
	$(a)^{\frac{1}{6}}$	$(b)^{\frac{-1}{6}}$	(c) 6	(d) 5			
Question 24)	$(-37) \times (-7) + (-37) \times (-3) =$	?					
	(a) 370	(b) - 370	(c) 148	(d) – 148			
Question 25)	$(?) \div (-18) = -5$	/b) 00	(a) O	(d) None of these			
	(a) - 90	(b) 90	(c) 0	(d) None of these			
		Chantor 2					
<u>Chapter - 2</u>							
Ougstion 1)	Find the missing numerate	or if $2^{\frac{x}{2}} + 4^{\frac{5}{2}} - 6^{\frac{7}{2}}$					
Question 1)	Find the missing numerate		(c) 1	(d) 4			
Ougation 2\	(a) 5	(b) 2	(c) 1 $^{7}$ hours so for this				
Question 2) Mohit needs to work 45 hours per week. He has worked $38\frac{7}{9}$ hours so far this week. How many hours does He need to work on Friday to meet the 45 hours requirement?							
				(d) 6 <sup>7</sup> hours			
Overtion O'	(a) 7 hours	(b) $6\frac{2}{9}$ hours	(c) $6\frac{1}{9}$ hours	(d) $6\frac{7}{9}$ hours			
Question 3)	The product of two mixed		(c) greater than 1	(d) None of these			
	(a) less than 1	(b) equal to 1	(c) greater than 1	(d) None of these			



```
If \frac{a}{b} and \frac{c}{d} are two rational numbers (b and d \neq 0) then
(a) \frac{a}{b} - \frac{c}{d} = \frac{a}{b} + \left(\frac{-c}{d}\right) \qquad \qquad (b) \frac{b}{a} - \frac{d}{c} = \frac{b}{a} + \left(\frac{d}{c}\right)
Question 7)
                                 \begin{array}{l} \text{(c)}\,\frac{a}{b} + \frac{c}{d} = \frac{a}{b} + \frac{d}{c} \\ \text{Which set of numbers is in order from greatest to least?} \\ \text{(a)}\,0.3,\,\frac{-1}{4},\frac{-4}{5},0 \\ \text{(b)}\,\frac{-1}{4},\frac{-5}{5},0,0.3 \end{array} 
Question 8)
                               (c) 0.3, 0, \frac{-4}{5}, \frac{-1}{4} (d) 0.3, 0, \frac{-1}{4}, \frac{-4}{5}

The product of two numbers is -24\frac{1}{2}. If one of the numbers is 5\frac{1}{4}, then the other number is :

(a) 5\frac{1}{6} (b) -4\frac{2}{3} (c) -5\frac{1}{6} (d) 4\frac{2}{3}

Divide \frac{9}{-14} \div 6

(a) \frac{5}{4} (b) \frac{-3}{4}
Question 9)
Question 10)
                                (a) \frac{5}{6} (b) \frac{-3}{28}

Solve the equation : \mathbf{I} \times \mathbf{I} = 21 \div 3\frac{1}{2} then
                                                                                                                                                                                       (d) Not define
Question 11)
                                                                                                                                                                                       (d) - 6
                                Solve \frac{-8}{-13} + \frac{-9}{26} + \frac{30}{-39} + 1 the answer is : (a) 1 \frac{41}{78} (b) \frac{57}{78}
Question 12)
                                                                                                                                     (c) \frac{1}{2}
                                                                                                                                                                                       (d) 0
                               If 3\frac{1}{6} + x = \frac{19}{42}, the value of x is

(a) 2\frac{10}{14}

(b) -2\frac{5}{7}

(c) -3\frac{13}{21}

(d) -2\frac{3}{14}

A pile of paper is 10\frac{1}{2} cm high and each sheet is \frac{7}{100} cm thick. Find the number of sheets in the pile

(a) 100

(b) 1000

(c) 700

(d) 150
Question 13)
Question 14)
                                The reciprocal of 2\frac{1}{6} - 3\frac{5}{12} is (a) 1 \frac{1}{4} (b) \frac{-4}{5}
Question 15)
                                                                                                                                                                                       (d) none of these
                                By what number should we multiply -4 \frac{9}{14} so that the product is 4 \frac{8}{63} ? (a) \frac{-8}{9} (c) \frac{7}{9}
Question 16)
                                                                                                                                                                                       (d)^{\frac{8}{8}}
                               Evaluate \frac{3\frac{3}{4}}{-x} for x = 8\frac{3}{4}

(a) 2\frac{1}{3} (b) \frac{3}{7} (c) \frac{-3}{8}

What must be added to \frac{-5}{9} to make it equal to \frac{2}{3} + \frac{2}{5}?

(a) \frac{23}{45} (b) 1\frac{28}{45} (c) \frac{1}{45}
Question 17)
Question 18)
                                (a) \frac{45}{45}
To divide by any non zero number, multiply by its:

(a) reciprocal (b) whole number

Solve -1.25 \times -0.44 \times \frac{10}{-11} the value is

(a) \frac{-1}{2} (b) \frac{1}{2}
Question 19)
                                                                                                                                     (c) Itself
                                                                                                                                                                                       (d) None of these
Question 20)
                                                                                                                                                                                       (d) 1
                                                                                                                                     (c) 0
Question 21)
                                 The reciprocal of a rational number is also called its
                                                                                                  (b) Multiplicative inverse (c) None of these
                                                                                                                                                                                                        (d) both (a) and (b)
                                 (a) Additive inverse
                                 The number terminates i.e which comes to an end is called
Question 22)
                                 (a) non terminating
                                                                                  (b) terminating
                                                                                                                                     (c) both (a) and (b)
                                                                                                                                                                                       (d) none
                                 All _____ decimals are rational numbers
Question 23)
                                 (a) Repeating
                                                                                  (b) On reccuring
                                                                                                                                     (c) terminating
                                                                                                                                                                                       (d) None of these
                                 The absolute value of 171 is
Question 24)
                                 (a) - 7
                                                                                                                                     (c) None
                                                                                                                                                                                       (d) 0
                                 The reciprocal of - 23 is
Question 25)
                                                                                  (b) \frac{1}{-23}
                                                                                                                                                                                       (d) None of these
                                 (a) 23
                                                                                                                                     (c) 1
                                                                                                    Chapter – 4
Question 1)
                                 A negative rational number raised to an even power is ( - )even
                                 (a) positive
                                                                                  (b) negative
                                                                                                                                                                                       (d) None of these
                                 The value of (-1)^{101} is
Question 2)
                               Find the value of \frac{81}{625} in power notation.

(a) \left(\frac{3}{5}\right)^4 (b) \left(\frac{9}{25}\right)^4

If a^m \times a^n = ?
                                                                                                                                     (c) 0
                                                                                                                                                                                       (d) None of these
Question 3)
                                                                                                                                     (c) both (a) & (b)
                                                                                                                                                                                       (d) None of these
Question 4)
                                (a) (a)<sup>mn</sup> (b) (a)<sup>m-n</sup> (c)
Determine 'a' so that \left(\frac{2}{5}\right)^3 \times \left(\frac{2}{5}\right)^{a+5} = \left(\frac{2}{5}\right)^{18}
(a) 10 (c)
                                                                                                                                     (c) (a)m+n
                                                                                                                                                                                       (d) a
Question 5)
```

(d) 0

```
4 (vii) maths
```

Question 7 (
$$6^{1}-8^{1}/3^{-}$$
? (b)  $-2$  (c)  $\frac{1}{24}$  (d) 24 (Question 7 ( $6^{1}/4^{-}$ )  $-2^{-}$  (b)  $-\frac{1}{25}$  (c)  $1\frac{1}{24}$  (d) 24 (Question 7 ( $6^{1}/4^{-}$ )  $-2^{-}$  (e)  $\frac{1}{15}$  (c)  $-\frac{1}{15}$  (c) 15 (Question 8) ( $\frac{1}{2}$ )  $-2^{-}$  ( $\frac{1}{3}$ )  $-2^{-}$  ( $\frac{1}{4}$ )  $-2^{-}$   $-2^{-}$  (a)  $\frac{4}{114}$  (b) 29 (c)  $\frac{344}{64}$  (d) none of these Question 9) ( $6^{-4}+\left(\frac{3}{2}\right)^{-1}\right)^{-1}=?$  (a)  $\frac{6}{3}$  (b)  $\frac{6}{3}$  (c)  $\frac{6}{3}$  (d) none of these Question 10) ( $-\frac{1}{2}$ )  $-\frac{6}{9}$ ? (a)  $-\frac{1}{3}$  (b)  $-\frac{4}{3}$  (c)  $-\frac{1}{3}$  (d)  $-\frac{1}{4}$  (d)  $-\frac{1}{4}$  (e)  $-\frac{1}{4}$  (d)  $-\frac{1}{4}$  (e)  $-\frac{1}{4}$  (e)  $-\frac{1}{4}$  (f)  $-\frac{1}{$ 

Question 25)

(a) 21.56×10<sup>5</sup>

(d) none of these

(d) none of these

(c)  $2.156 \times 10^6$ 

(b) 215.6×10<sup>4</sup>

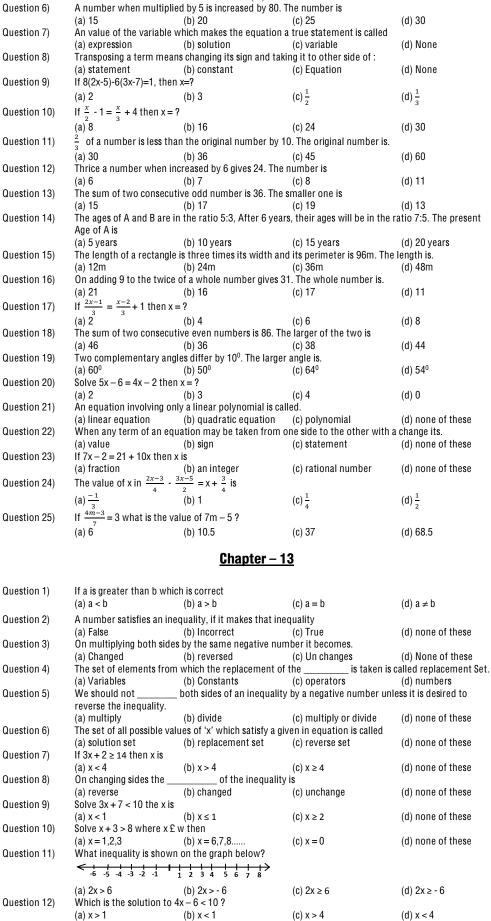
## 5 (vii) maths **Chapter – 5**

0	When a sumbout a to model alter		allocations of the collection	
Question 1)	When a number is multiplie (a) cube (	ed by itself the product so (b) square	(c) square root	(d) cube root
Question 2)	A natural number which is			(u) cube root
Question 2)		(b) perfect cube	(c) None of these	(d) both (a) and (b)
Question 3)	The √ (symbol) represe		(0) 140110 01 111000	(a) both (a) and (b)
Question o)		(b) fourth root	(c) square root	(d) All these
Question 4)	The cube of a number is tha			(4) / 111000
.,		(b) 4	(c) 3	(d) 0
Question 5)	Which of the following num		are?	,
		(b) 3969	(c) 5478	(d) 4624
Question 6)	Which of the following num			
0 =,		(b) 3721	(c) 1024	(d) 1296
Question 7)	Which of the following can			(4) 0
Question 8)	(a) 6 ( What least number must be	(b) 1	(c) 9	(d) 8
Question o)		(b) 10	(c) 7	(d) 4
Question 9)	What least number must be			(u) 4
,		(b) 2	(c) 1	(d) 6
Question 10)	$\sqrt{0.9} = ?$	· ,	,	,
,	(a) 0.3	(b) 0.03	(c) 0.33	(d) 0.94
Question 11)	$\sqrt{0.9} \times \sqrt{1.6} = ?$			
		(b) 1.2	(c) 0.75	(d) 12
Question 12)	$\frac{\sqrt{288}}{\sqrt{128}} = ?$			
,	V128			
	(a) $\frac{\sqrt{3}}{2}$ (	(b) $\frac{3}{\sqrt{2}}$	(c) $\frac{3}{2}$	(d) 1.49
	(u) <sub>2</sub>	<sup>(b)</sup> √2	( <sup>0</sup> ) <sub>2</sub>	(d) 1.40
Question 13)	$\sqrt{2\frac{1}{4}} = ?$			
Question 13)	• •	1	1	
		(b) $1\frac{1}{2}$	(c) $1\frac{1}{4}$	(d) none of these
Question 14)	Which of the following is th			( I) 500
Question 15)	(a) 196 ( Which of the following is th	(b) 441	(c) 625	(d) 529
Question 13)		(b) 3844	(c) 1369	(d) 2500
Question 16)	$\sqrt{72} \times \sqrt{98} = ?$	(5) 55	(0)	(a) 2000
autotion 10)		(b) 84	(c) 64	(d) 74
Question 17)	$\sqrt[3]{512} = ?$	· /	( )	( )
,		(b) 7	(c) 8	(d) 9
Question 18)	$\sqrt[3]{125 \times 64} = ?$	` ,	, ,	,
	(a) 100 (	(b) 40	(c) 20	(d) 30
	2			
Question 19)	$\sqrt[3]{\frac{-512}{729}} = ?$			
	. 727			
	(a) $\frac{-7}{9}$ (	$(b) \frac{-8}{9}$	(c) $\frac{7}{9}$	(d) $\frac{8}{8}$
	. , ,	. , ,	. , g	. , 9
Question 20)	$(0.8)^3 = ?$			
	(a) 51.2	(b) 5.12	(c) 0.512	(d) none of these
Question 21)	$\left(1\frac{3}{10}\right)^3 = ?$			
<b>a</b> aoo	( 10 /			
	(a) $1\frac{27}{1000}$ (	(b) $2\frac{27}{1000}$	(c) $2\frac{197}{1000}$	(d) none of these
Question 22)	By what least number shou			(4) 110110 01 111000
Question 22)		(b) 6	(c) 9	(d) 8
Question 23)	Which of the following num		(0)	(=, =
/		(b) 1331	(c) 2016	(d) 739
Question 24)	By what least number shou	ld 1536 be divided to get	a perfect cube ?	
		(b) 4	(c) 6	8 (b)
Question 25)	Which of the following is a		(a) 0.40	(4) 1000
	(a) 216 (	(b) 512	(c) 343	(d) 1000

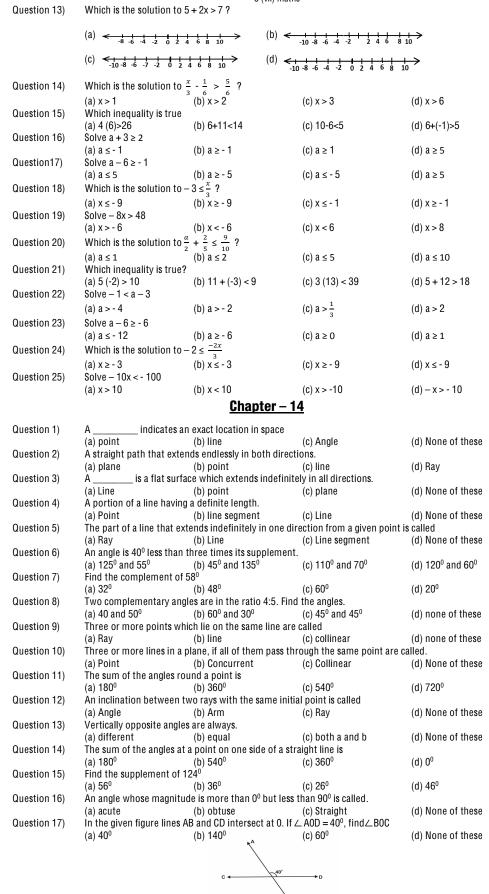
## 6 (vii) maths Chapter – 11

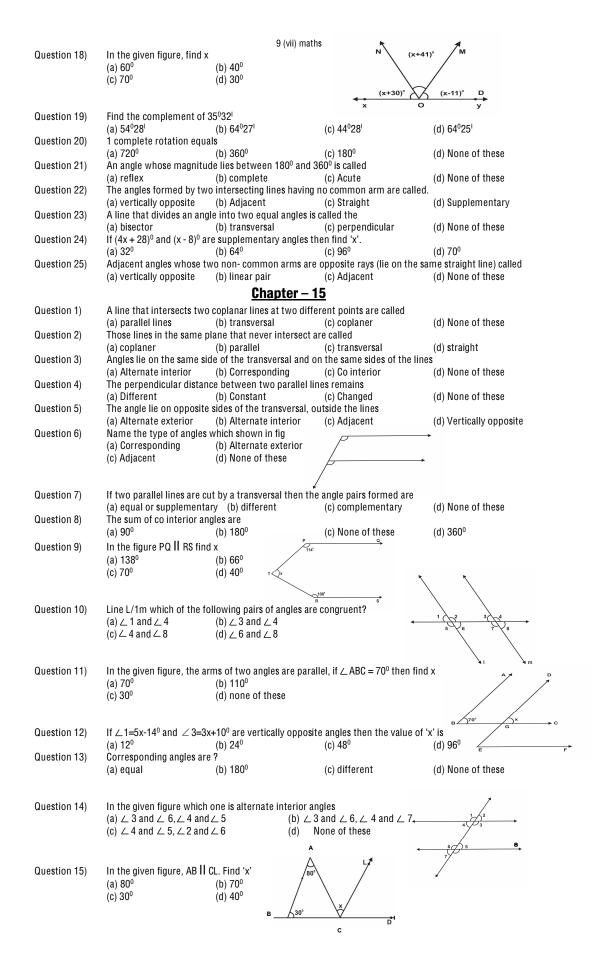
Question 1)	A symbol in algebra having a fixed value is call (a) Constant (b) Algebric express		(d) none of these				
Question 2)	A symbol which can be given or assigned a var (a) Term (b) Variable	ied number of numerical values i (c) Constant	s called (d) Coefficients				
Question 3)	A combination of constants and variables conr ls called						
Question 4)	(a) Algebric expression (b) Like terms In a polynomial the exponents of the variables	(c) Unlike terms s are always	(d) Term				
Question 5)	(a) integers (b) positive integers Which of the following is a binomial?	-	(d) none of these				
Question 6)	(a) $8 \times x \div x$ (b) $12a^2 + 7b + 5c$ The various parts of an algebric expression con	(c) $5a \times 7b \times 8c$	(d) 12(a <sup>3</sup> +a)				
Question 7)	(a) Expression (b) Constants Multiply 3x by (2x + 5y)	(c) Term	(d) None of these				
,	(a) $6x^2 + 15xy$ (b) $6x^3 + 15xy^2$	(c) $6x + 15x^2y^2$	(d) none of these				
Question 8)	Subtract 6a – 4b from 5a + 8b we get (a) –a + 12b (b) –a -12b	(c) a + 12b	(d) none of these				
Question 9)	The sum of $a+b+ab$ , $-b+c-bc$ and $-c-a+ac$ is (a) $2c+ab-bc+ac$ (b) $ab-bc-ac$	(c) ab - bc + ac	(d) 2a + 2b - 2c + ab - ac - bc				
Question 10)	Rule $(+x) \times (-y)$ becomes. (a) $+xy$ (b) $-xy$	(c) xy	(d) none of these				
Question 11)	Terms having same literal factors are called (a) Coefficient (b) like terms	(c) constantant	(d) none of these				
Question 12)	5a - 3 [3a - (4 - 7a)] + 4 (a-3) on simplificatio (a) -21 a (b) 21a + 12		(d) -24				
Question 13)	$(3x-4)(2x^2-5x+1) - (2x-1)(3x^2+7x-5)$ equal (a) $12x^3-40x^2+34x-1$ (b) $34x^2-40x-9$		(d) $12x^3 - 34x^2 + 40x + 9$				
Question 14)	Divide $-54x^4y^3z$ by $6x^2y^2z$ (a) $9xy^2$ (b) $-9x^2y$	(c) $9x^2y^2$	(d) $-9x^2v^2$				
Question 15)	Simplify (a+1) (a+2) (a+3) then (a) a³+6a²+11a+6 (b) a²+6a³-11a+8	(c) a <sup>4</sup> +6a <sup>2</sup> -11a-6	(d) None of these				
Question 16)	Which polynomial has the highest degree?	. ,					
Question 17)	(a) $5x^2-2x^8+x^6$ (b) $-7x^2+20$ By how much is $a^4-6a^2b^2+b^4$ more than $a^4+4a^2l$		(d) -150x <sup>3</sup>				
Question 18)	(a) -2a <sup>2</sup> b <sup>2</sup> (b) 2a <sup>4</sup> +b <sup>4</sup> What will be the missing term?	(c) -10a <sup>2</sup> b <sup>2</sup>	$(d) 2a^2b^2$				
	$(-14y^2+9y^2-12y+3) + (2y^2 + \Box -6y-2) = (-3y^2-15y)$ (a) -6y (b) 3y	/+1) (c) −3y	(d) 6y				
Question 19)	$\frac{-7x^7y^3}{X^7}$ $\frac{-56xy^5z^2}{-8xy^2z^2}$ equals						
Question 20)	(a) -15y <sup>3</sup> (b) 15y <sup>3</sup> The sum or difference of monomials is called	(c) y <sup>3</sup>	(d) 0				
Question 21)	(a) polynomial (b) Term The term having different variable parts are ca	(c) Coefficient alled	(d) None				
Question 22)	(a) Constant and variables (b) Terms The sum of the exponents of the variables is:	(c) Like terms	(d) Unlike terms				
Question 23)	(a) Degree (b) exponents $x^0+y^0+3$ equals	(c) variables	(d) None				
Question 24)	(a) 1 (b) 2 Which is the correct one	(c) 3	(d) 5				
	(a) Dividend = Reminder $\times$ Q + Div (c) Dividend = Q $\times$ D + R (d	o) Divisor = Dividend × Q + R I) None of these					
Question 25)	When $2x^2-11x+12$ divided by x-4 then reminde (a) 1 (b) 2	er is (c) 0	(d) 4				
<u>Chapter – 12</u>							
Question 1)	A mathematical statement that two expression						
Question 2)	(a) Statement (b) equation If $5x \frac{-3}{4} = 2x \frac{-2}{3}$ , then $x = ?$	(c) expression	(d) none of these				
	(a) $\frac{1}{12}$ (b) $\frac{1}{4}$	(c) 36	(d) $\frac{1}{36}$				
Question 3)	If (2n+5) = 3 (3n - 10), then n = ? (a) 5 (b) 3	(c) $\frac{2}{5}$	(d) $\frac{2}{3}$				
Question 4)	If $\frac{x-1}{x+1} = \frac{7}{9}$ then x = ?	3	J				
Question 5)	(a) 6 (b) 7 The sum of two consecutive whole numbers is	(c) 8 53. The smaller number is	(d) 10				
	(a) 25 (b) 26	(c) 29	(d) 23				

7 (vii) maths



8 (vii) maths





10 (vii) maths In the given figure AB II CD and BC II DE. What type of angles are x and y Question 16) (a) Corresponding (b) vertically opposite (c) alternate (d) None of these Question 17) If L II m, then value of 'x' is (a) 115<sup>0</sup> (b) 295<sup>0</sup> (d) 235<sup>0</sup> (c)  $195^{\circ}$ In the given figure find 'x' if AB  $\boldsymbol{II}$  CD Question 18) (a)  $60^{\circ}$ (b)  $70^{\circ}$  $(c) 50^{\circ}$ (d) None Question 19) What type of angles are shown in figure (a) Alternate interior (b) Corresponding (d) None of these (c) vertically opposite If  $\triangle$  A =  $(5x-10)^0$  and  $\triangle$  B =  $(8x-5)^0$  are co interior angles the find 'x' (a)  $20^0$  (c)  $25^0$ Question 20) (d)  $10^{0}$ Question 21) For two parallel lines and a transversal, ∠ 1=85°, for which pair of angles measures is sum least? (b)  $\angle$  1 and same side interior angle (d)  $\angle$  1 and its complement (a)  $\angle$  1 and a corresponding angle (c)  $\angle$  1 and its supplement In the given figure, L II m Explain, why  $\frac{x}{y} = 1$  because Question 22) (b) Adjacent (a) Vertically opposite (c) Alternate interior (d) None of these Question 23) In the given figure, find 'x' if L  $\parallel$  m (a)  $75^{\circ}$ (b)  $105^{\circ}$ (c) 180° (d) 135° Question 24) The same side interior angles are (b) Complementary (d) none of these (a) equal (c) Supplementary Question 25) Alternate interior angles are (a) equal (b) not equal (c) supplementary (d) none of these

