# **Multiple Choice Questions (MCQs)**

#### CLASS: VIII SUBJECT: MATHS

#### Chapter - 1

Which of the following is a positive rational number –

Question 1)

	(a) $\frac{-2}{3}$	(b) $\frac{5}{-7}$	(c) $-2\frac{3}{5}$	(d) $\frac{-4}{-5}$		
Question 2)	All rational number lying	to the left of 0 are	3	J		
O	(a) Negative	(b) Positive	(c) both (a) & (b)	(d) Neither (a) or (b)		
Question 3)	If $\frac{p}{q}$ lies to the right of $\frac{r}{s}$ ,	, then	r	(1)		
	(a) $\frac{r}{s} < \frac{p}{q}$		$(c)\frac{p}{q} = \frac{r}{s}$	(d) none of these		
Question 4)	b u	al numbers then closure pr		:		
	(a) $\frac{a}{b} + \frac{c}{d} = \frac{c}{d} + \frac{a}{b}$	(b) $\frac{a}{b} + \frac{c}{d}$ is a ration	onal number			
	(c) $\frac{a}{b} \times \frac{c}{d}$ is a rational number (d) None of these					
Question 5)	Additive inverse of $\frac{5}{8}$ is:					
Question 5)			(c) <sup>-5</sup>	(d) 0		
Ougstion ()	(a) $\frac{8}{5}$	(b) $\frac{-8}{5}$	(c) $\frac{8}{-5}$	(u) 0		
Question 6)	Additive inverse of $\frac{-3}{2}$ is	(b) <sup>2</sup>	(a) <sup>-2</sup>	(d) mana of these		
O	(a) $\frac{3}{2}$	(b) $\frac{2}{3}$	(c) $\frac{-2}{3}$	(d) none of these		
Question 7)	$\frac{4}{5}$ × 0 is equal to :	a > 5	, , =5	( )) =		
	(a) $\frac{4}{5}$	(b) $\frac{5}{4}$	(c) $\frac{-5}{4}$	(d) 0		
Question 8)	$\frac{a}{b} \times \left(\frac{c}{d} + \frac{e}{b}\right)$ shows:					
	(a) Distributive Property	of Multiplication over Add				
	<ul><li>(b) Distributive Property</li><li>(c) Commutative proper</li></ul>	of Multiplication over Sub	traction			
	(d) Commutative Proper	· ·				
Question 9)	The multiplicative inverse	4	1	0		
	(a) - 8	(b) $\frac{-1}{8}$	(c) $\frac{1}{8}$	(d) $\frac{8}{1}$		
Question 10)	Value of $\left(\frac{-7}{3}\right)$ is					
	(a) $\frac{7}{3}$	(b) $\frac{-7}{2}$	(c) $\frac{7}{-3}$	(d) $\frac{-7}{0}$		
Question 11)	The multiplicative inverse	3	. 7 –3	0		
	(a) 15	(b) $\frac{1}{-15}$	(c) $\frac{1}{15}$	(d) 0		
Question 12)	$\frac{-32}{56}$ expressed as a rational	al number with numerator	4 is			
	(a) $\frac{4}{7}$	(b) $\frac{4}{14}$	(c) $\frac{4}{-7}$	(d) $\frac{4}{-14}$		
Question 13)	$\frac{4}{8}$ expressed as a rational	number with denominator	24 is			
	(a) $\frac{16}{32}$	(b) $\frac{16}{40}$	(c) $\frac{12}{24}$	(d) $\frac{8}{24}$		
Question 14)	$\frac{3}{9}$ can be expressed as:	10	2.	21		
	(a) $\frac{1}{2}$	(b) $\frac{6}{24}$	(c) $\frac{2}{3}$	(d) $\frac{3}{6}$		
Question 15)	If $\frac{a}{b} + \frac{c}{d} = \frac{c}{d} + \frac{a}{b}$ , state	which property is utilised:	3	O		
	(a) Commutative proper	ty of addition				
		o) Commutative property of multiplication c) Commutative property of subtraction				
	(d) None of these	ty of subtraction				
Question 16)	Multiplicative Inverse of	$\frac{a}{b}$ is				
	(a) $\frac{-a}{b}$	(b) $\frac{b}{a}$	(c) $\frac{-b}{a}$	(d) 1		
Question 17)		not commutative for ratior	nal numbers :			
O	Addition	(b) Subtraction	(c) Multiplication	(d) None of these		
Question 18)	The additive inverse of $\frac{-1}{-1}$	4.5	, > -15	, n -11		
Ougation 10)	(a) $\frac{15}{11}$	(b) $\frac{-15}{-11}$	(c) $\frac{-15}{11}$	(d) $\frac{-11}{15}$		
Question 19)	(a) Multiplication	nal numbers is satisfied for (b) Addition	: (c) Subtraction	(d) All of these		
Question 20)	Value of $\left  \frac{-14}{33} \right $ is	(-, -, -, -, -, -, -, -, -, -, -, -, -, -	(-)	(4, 1 21 2 2		
Question 20)	33	(b) $\frac{-14}{33}$	(c) $\frac{14}{33}$	(d) 0		
	33	33	(C) 33	(u) 0		
Question 21)	Which symbol will be fille	$d\left(\frac{-1}{2}\right)\left(\frac{-3}{5}\right)$				
(a) $<$ (b) $>$ (c) $=$ (d) None of thes				(d) None of these		
Question 22)	Which symbol will be fille	d $\left[0\left(\frac{-5}{18}\right)\right]$				
	(a) >	(b) <	(C) =	(d) None of these		

2 (viii) maths Which symbol will be filed  $\left[\frac{4}{16} \dots \frac{10}{40}\right]$  (a) < (b) > Question 23) (c) =(d) None of these Fill in the blanks : Question 24)  $\frac{-19}{40} \times \frac{8}{11} = \frac{8}{11} \times \dots$ (a)  $\frac{-19}{40}$  (b)  $\frac{19}{40}$  $\frac{2}{9} \times \left(\frac{-4}{9} + \frac{6}{17}\right) = \frac{2}{9} \times \dots \times \frac{6}{17}$ Question 25) (a)  $\frac{6}{17}$ ,  $\frac{-4}{9}$  (b)  $\frac{-6}{17}$ ,  $\frac{4}{9}$ (c)  $\frac{-4}{9}$ ,  $\frac{2}{9}$ (d)  $\frac{4}{9}$ ,  $\frac{-6}{17}$ Chapter - 2 Question 1) 3<sup>-2</sup> can be written as (c)  $\frac{1}{3}$ -2 (d)  $\frac{-2}{3}$ (a) 32 Question 2)

The value of  $\frac{1}{4}$ -2 is (a) 16 (b) 8 The Value of  $3^5 - 3^{-6}$  is Question 3) (b)  $3^{-6}$ (c)  $3^{11}$ (d)  $3^{-11}$ The value of  $\left(\frac{2}{5}\right)^{-2}$  is (a)  $\frac{4}{5}$ Question 4) (c)  $\frac{25}{4}$ (d)  $\frac{5}{2}$ The reciprocal of  $\left(\frac{2}{5}\right)^{-1}$  is  $(a)\frac{2}{5}$   $(b)\frac{5}{2}$  The multiplicative inverse of  $10^{-100}$  is Question 5) (c)  $\frac{-5}{2}$ (d)  $\frac{-2}{5}$ Question 6) (d) 10<sup>-100</sup> (c)  $10^{100}$ The Value of  $(-2)^{2\times 3-1}$  is Question 7) The multiplicative inverse of  $\left(\frac{-5}{9}\right)^{-99}$  is Question 8) (a)  $\left(\frac{-5}{9}\right)$  (b)  $\left(\frac{-5}{9}\right)^{99}$  (c)  $\left(\frac{9}{-5}\right)^{99}$  (d) If x be any non-zero integer and m, n be negative integers, then  $x^m \times x^n$  is equal to Question 9) (b)  $x^{m+n}$ (c) x<sup>n</sup> (d) x<sup>m-n</sup> If y be any non-zero integer, then  $y^0$  is equal to Question 10)

(b) 0 (c) -1(d) not defined If x be any non-zero integer, then x-1 is Question 11) (b)  $\frac{1}{r}$ (c) -x If x be any integer different from zero and m be any positive integer then x-m is equal to Question 12) (a)  $x^m$  (b)  $-x^m$  (c)  $\frac{1}{x}m$  (d)  $\frac{-1}{x^n}$  If x be any integer different form zero and m, n be any integers, then  $(x^m)^n$  is equal to (a) x (b)  $x^{mn}$  (c)  $x^{m/n}$  (d)  $x^m$ Question 13) (d) x<sup>m-n</sup> Which of the following is equal to  $\left(\frac{-3}{4}\right)^3$ Question 14) (a)  $\left(\frac{3}{4}\right)^{-3}$ (c)  $\left(\frac{4}{3}\right)^3$ (d)  $\left(\frac{-4}{3}\right)^3$ 

 $\left(\frac{-5}{7}\right)^{-5}$  is equal to Question 15) (a)  $\left(\frac{5}{7}\right)^{-5}$ (c)  $\left(\frac{7}{5}\right)^5$ (d)  $\left(\frac{-7}{5}\right)^5$ 

Question 16)

 $\left(\frac{-7}{5}\right)^{-1}$  is equal to (a)  $\frac{5}{7}$ (c)  $\frac{7}{5}$  $(-9)^{3} \div (-9)^{8}$  is equal to Question 17)

(b) (9)<sup>-5</sup>  $(c) (-9)^5$ (d)  $(-9)^{-5}$ 

For a non-zero integer x,  $x^7 \div x^{12}$  is equal to (a)  $x^{-5}$  (b)  $x^{12}$  The value of  $(7^{-1}-8^{-1})^{-1} - (3^{-1}-4^{-1})^{-1}$  is (a) 44 (b) 56 Question 18) (c)  $x^{64}$ (d)  $x^{-64}$ 

Question 19) (c) 68(d) 12

 $\left(\frac{1}{10}\right)^0$  is equal to Question 20) (c) 1 (d) 10

 $\left(\frac{3}{4}\right)^5 \div \left(\frac{5}{3}\right)^5$  is equal to Question 21) (a)  $\left(\frac{3}{4} \div \frac{5}{3}\right)^5$  (b)  $\left(\frac{3}{4} \div \frac{5}{3}\right)^1$  (c)  $\left(\frac{3}{4} \div \frac{5}{3}\right)^0$  (d)  $\left(\frac{3}{4} \div \frac{5}{3}\right)^{10}$  Question 22) For any two non- zero rational numbers x & y,  $x^4 \div y^4$  is equal to (a)  $(x \div y)^0$  (b)  $(x \div y)^1$  (c)  $(x \div y)^4$  (d)  $(x \div y)^8$  Question 23) For a non- zero rational number p,  $p^{13} \div p^8$  is equal to (a)  $p^5$  (b)  $p^{21}$  (c)  $p^{25}$  (d)  $p^{25}$  (d)  $p^{25}$  Question 24) The standard form of 234000000 is (a)  $p^{25}$  (b)  $p^{25}$  (c)  $p^{25}$  (d)  $p^{25}$  Question 25) Which of the following is not the reciprocal of  $p^{25}$  (d)  $p^{25}$  (e)  $p^{25}$  (e)  $p^{25}$  (f)  $p^{25}$  (f)  $p^{25}$  (g)  $p^{25}$  (g)  $p^{25}$  (g)  $p^{25}$  (g)  $p^{25}$  (h)  $p^{25}$  (g)  $p^{25}$  (e)  $p^{25}$  (f)  $p^{25}$  (f)  $p^{25}$  (g)  $p^{25}$  (g)  $p^{25}$  (g)  $p^{25}$  (e)  $p^{25}$  (f)  $p^{25}$  (f)  $p^{25}$  (g)  $p^{25}$  (g)  $p^{25}$  (e)  $p^{25}$  (f)  $p^{25}$  (g)  $p^{25}$  (p)  $p^{25}$  (p)  $p^{25}$  (p)  $p^{25}$  (p

Question 1)	Find the square root of 32	4. 4		
>	(a) 57	(b) 27	(c) 53	(d) 43
Question 2)		-	tiplied so that it becomes a	
0 11 0	(a) 2	(b) 3	(c) 5	(d) 10
Question 3)	The square of 25 is	/L) / 2F	(a) 10F	/ <sub>-</sub>  \ 17E
	(a) 5	(b) 625	(c) 125	(d) 175
Question 4)	The value of $\sqrt{10^2 - 6^2}$ is		( ) =	( )) 0 (
	(a) 64	(b) 100	(c) 8	(d) 36
Question 5)	If $\frac{52}{x} = \sqrt{\frac{169}{289}}$ , the value of	f x is		
			(c) 52	(d) 68
Question 6)	(a) 62 Find $41 - \sqrt{21 + \sqrt{19 - \sqrt{$	<del></del>		
,	(a) 3	(b) 4	(c) 6	(d) 9
Question 7)		· /	385 to make it a perfect squ	• •
,	(a) 37	(b) 16	(c) 67	(d) 1369
Question 8)		of three digits that is a per		•
•	(a) 999	(b) 981	(c) 961	(d) 1024
Question 9)	The square root of 158508		•	
	(a) 1259	(b) 2159	(c) 1251	(d) 1291
Question 10)	Which of the following is t	the closest to $\sqrt{3}$		
,	(a) $\frac{9}{5}$	(b) 2	(c) $\frac{173}{100}$	(d) 1.69
Question 11)	3			(4) 1.07
Question 11)	(a) 22	ich must be added to 1000	(c) 42	(d) 24
Question 12)	The square root of 0.0196	(b) 32	(6) 42	(u) 24
Question 12)	(a) 0.16	(b) 0.26	(c) 0.12	(d) 0.14
Question 13)	Square of 4 is	(b) 0.20	(6) 0.12	(u) 0.14
Question 13)	(a) 16	(b) 2	(c) 0.4	(d) 1.6
		• •	(6) 0.4	(u) 1.0
Question 14)	The value of $\left(-\frac{9}{16}\right)$ × (a) $\frac{3}{2}$	$\left( \int \frac{64}{81} \right)$ is		
	(a) $\frac{3}{2}$	(b) $\frac{-3}{-3}$	(c) $\frac{-2}{3}$	(d) $\frac{-1}{18}$
Question 15)	The square of 1.1 is	` ' 2	` ' 3	18
Question 15)	(a) 11	(b) 121	(c) 12.1	(d) 1.21
Question 16)		• •	75 to make it perfect square	• •
240311011 10)	(a) 7	(b) 9	(c) 11	(d) 5
Question 17)		/hich 325 is multiplied to m	• ,	(3) 5
200000000000000000000000000000000000000	(a) 15	(b) 11	(c) 13	(d) 9
Question 18)		hich 2700 is divided to ma		
	(a) 5	(b) 2	(c) 3	(d) 9
Question 19)		hich 5488 is divided to ma		
,	(a) 5	(b) 4	(c) 6	(d) 7
Question 20)	The value of $\sqrt{64 + \sqrt{36}}$	<del>`</del>	•	•
,	(a) 10	(b) $\sqrt{70}$	(c) $\sqrt{80}$	(d) 8
Question 21)	Square root of 71824 is		(-) ( -)	(-, -
,	(a) 328	(b) 424	(c) 268	(d) 258
Question 22)	Square Root of 16 is	(~) .= .	(6) 266	(0) 200
,	(a) 256	(b) 4	(c) 24	(d) 2 – 56
Question 23)	Square of 12 is			
	(a) √12	(b) $\sqrt[4]{3}$	(c) 144	(d) None of these
0		(~, v ·	(0)	(5) 110110 01 111030
Question 24)	The value of $\frac{\sqrt{0.0032}}{\sqrt{0.32}}$ is			
	(a) 0.0001	_(b) 0.001	(c) 0.01	(d) 0.1
Question 25)	The value of $\sqrt{16 + \sqrt{81}}$	is		
	(a) 4	(b) 9	(c) 16 √81	(d) 5

Ougstion 1)	The cube root of 214 is			
Question 1)	The cube root of 216 is (a) 36	(b) 6	(c) 18	(d) 12
Question 2)	The cube of 8 is (a) 2	(b) 512	(c) 4	(d) 64
Question 3)	$\sqrt[3]{64} =$ (a) 8	(b) 16	(c) 4	(d) 4096
Question 4)	(a) 1080 is a perfect cu	ube (b) 625	(c) 100	(d) 27
Question 5)		f the cube of a number hav (b) 4		(d) 6
Question 6)	The digit at unit's place o	f the cube of a number hav	ving 3 at unit's place is	
Question 7)		(b) 9 ne cube of a number 0 at u		(d) 7
Question 8)	(a) six The digit at units place of		(c) two	(d) four
Question 9)	(a) 3 The digit at units place of		(c) 9	(d) 7
Question 10)	(a) 3 The cube root of 8000 is	(b) 9	(c) 7	(d) 6
Question 11)	(a) 4000 20 <sup>3</sup> =	(b) 200	(c) 2000	(d) 20
Question 12)	(a) 60 $\sqrt[3]{27000} =$	(b) 400	(c) 800	(d) 8000
Question 13)	(a) 300 Cube of – 3 is	(b) 30	(c) 3000	(d) 900
	(a) $-9$	(b) – 27	(c) 9	(d) 27
Question 14)	(a) 2	(b) 4	(c) 8	(d) 6
Question 15)	$\sqrt[3]{27} \times \sqrt[3]{64} =$ (a) 72	(b) 24	(c) 12	(d) – 24
Question 16)	$3\sqrt{\frac{-27}{1331}} =$			
,	<b>√</b> 1331			
Question 17)	(a) $\frac{3}{11}$ 85184 is the cube root of	(b) $\frac{-3}{11}$	(c) $\left(\frac{3}{11}\right)^2$	(d) $\left(\frac{-3}{11}\right)^2$
,	(a) 24	(b) 34	(c) 44	(d) 64
Question 18)	(a) 3	(b) 5	ed to make it a perfect cub (c) 15	(d) 7
Question 19)	The value of $\sqrt[3]{64 + 936}$ (a) 100	(b) 10	(c) 1000	(d) 1
Question 20)	Which of the following is (a) 2744	the cube of an odd number (b) 12167	er (c) 8000	(d) 32768
Question 21)	What is the smallest num (a) 2	ber by which 1080 must be (b) 3	e divided to get the perfect (c) 5	cube. (d) 15
Question 22)	Cube root of 3375 is (a) 25	(b) 35	(c) 15	(d) 45
Question 23)	Cube of -15 is	(b) -625		
Question 24)	(a) -3375 Value of $\sqrt[3]{1.331}$ is	• •	(c) 625	(d) 3375
Question 25)	(a) 11 The value of $\sqrt[3]{9261}$ is	(b) $\frac{11}{10}$	(c) 0.11	(d) 110
2403(1011 20)	(a) 21	(b) 31	(c) 11	(d) 101
		<u> Chapter – 5</u>		
Question 1)	Generalised form of a fou	ur- digit number abdc is		
	(a) 1000a + 100b + 10c + (c) 1000a + 100b + 10d +	* *	0a + 100c + 10b + d o × c × d	
Question 2)	Generalised form of a tw (a) x – y	* *	(c) 10x – y	(d) 10y + x
Question 3)	The usual form of 1000a (a) abc		(c) aobc	(d) aboc
Question 4)	• •	number then abc – cba is no (b) 11	* *	(d) 33
Question 5)	The sum of all numbers for	ormed by the digits x, y and	d z of the number xyz is divi	isible by
Question 6)	-		(c) 37 possible value (s) of b is / are	
	(a) 0 & 2	(b) 2 & 5	(c) 0 & 5	(d) 7

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Question 7)	Let abc be a 3 digit number. Then abc + bca + cab is		(1) 0
Question 8)	(a) a+b+c (b) 3 A four digit number 4ab5 is divisible by 55. Then the	(c) 37 A value of h-a is	(d) 9
Question of	(a) 0 (b) 1	(c) 4	(d) 5
Question 9)	If abc is a 3-digit number then the number abc – a-k		
	(a) 9 (b) 90	(c) 10	(d) 11
Question 10)	A 6-digit number is formed by repeating a 3-digit number is divisible by.	·	,
Ougstion 11)	(a) 7 only (b) 11 only	(c) 13 only	(d) 1001
Question 11)	If the sum of digits of a number is divisible by 3, the (a) 2 (b) 3	(c) 6	(d) 9
Question 12)	x + y + z = 6 and z is an odd digit, then the 3-digit nu		(4)
,	(a) an odd multiple of 3 (b) odd multiple of 6		(d) even multiple of 9
Question 13)	If 5 A		
	+ B 3 , then value of A & B		
	(a) $A = 2 B = 3$ (b) $A = 3$ , $B = 2$	(c) A = 2, B = 1	(d) A = 1, B = 2
Question 14)	If A 3		
Question 14)	+ 8 B , then A + B is		
	15 0		
	(a) 13 (b) 12	(c) 17	(d) 15
Question 15)	If 5 A then A is		
	$\frac{\times}{3} \frac{3}{9} \frac{9}{9}$ , then A is		
	(a) 3 (b) 6	(c) 7	(d) 9
		(0)	
	<u>Chapter – 6</u>	1	
Question 1)	Set of natural numbers are		
,		(c) Z = {-2, -1, 0, 1, 2}	(d) None of these
Question 2)	Set of whole number is	,, ,	
	(a) $P = \{2, 3, 5, 7, \dots\}$ (b) $W = \{0, 1, 2, 3, \dots\}$	(c) $E = \{0, 2, 4,\}$	(d) None of these
Question 3)	Set of integers	(-) F (0 0 4 )	(A) Niere of Henry
Question 4)	(a) Z = {2,-1,0,1,2} (b) O = {1, 3, 5,} Set of prime numbers	(c) $E = \{0, 2, 4, \ldots\}$	(d) None of these
Question 4)	(a) N = {1, 2, 3,} (b) P = {2, 3, 5, 7,}	(c) Z = {2,-1,0,1,2	(d) None of these
Question 5)	If A is a set which is equal to $\{1, 2, 3\}$ then the set of		
•	(a) Power set of A (b) Empty Set	(c) Universal Set	(d) Empty Set
Question 6)	The power set of an empty set is not empty. It cons		
	(a) Ø (b) { Ø }	(c) { 1 }	(d) 0
Question 7)	The power set of an empty set is not empty. It cons		(4) 0
Question 8)	(a) 3 (b) 2	(c) 1	(d) 0
Question o)	Let A = {0, 1}, then n (A) = (a) 1 (b) 2	(c) 0	(d) 3
Question 9)	Let B = {months of the year}, then n (B) =	(9) 0	(-/ -
	(a) {JanuaryDecember} (b) 12	(c) 8	(d) 5
Question 10)	Let C= {B, 0, K}, then n (C) =		
0	(a) 1 (b) 2	(c) 3	(d) 4
Question 11)	If two sets have same number of elements, they are		(d) None of these
Question 12)	(a) equal sets (b) equivalent sets If two sets have no common elements, they are.	(c) disjoint sets	(d) None of these
Question 12)	(a) equal sets (b) equivalent sets	(c) disjoint sets	(d) empty sets
Question 13)	Null set is the name of	(b) disjoint sots	(a) ompty sots
,	(a) empty set (b) equal set	(c) singleton set	(d) none of these
Question 14)	When one set is entirely contained in another set, if		
0	(a) subset (b) universal set	(c) both a & b	(d) None of these
Question 15)	A union B is written as	(c) A C D	(d) A C D
Question 16)	(a) A ∩ B (b) A ∪ B A intersection B is written as	(c) A C B	(d) A <u>C</u> B
Question 10)	(a) A U B (b) A C B	(c) A <u>C</u> B	(d) A ∩ B
Question 17)	If $\xi = \{1, 2, \dots, 10\} \& A = \{1, 2, 3, 4, 5\}$ then A' will		\-\ <u>-</u>
•	(a) {1, 2, 3, 4, 5} (b) {0, 1, 2, 3, 4, 5}	(c) { }	(d) {6, 7, 8, 9, 10}
Question 18)	If $A = \{1, 2, 3\}$ $B = \{3, 5, 6\}$ then $A \cup B$ is		
Ougation 40	(a) {1, 2, 3, 5} (b) {5, 6}	(c) {1, 2, 3, 5, 6}	(d) None of these
Question 19)	If $A = \{4, 5, 6\}$ & $B = \{6, 7, 8\}$ then $A \cap B$ is (a) $\{4\}$ (b) $\{4, 5\}$	(c) { 6 }	(d) { }
	(U) [4, U]	(O) ( O )	( <b>~</b> / ( )

(d) { }

(d) None

(d) None

(c) { 6 }

(c) Ø

(c) C U B

(b) {4, 5}

If  $A = \{1, 3, 5, 7\} \& B = \{2, 4, 6, 8\}$  then  $A \cap B$  is (a)  $\{1, 3, 5, 7\}$  (b) 0  $A \cup B$  is equal to (a)  $B \cup A$  (b)  $B \cup C$ 

(a) { 4 }

Question 20)

Question 21)

Question 22)	A ∩ B is equal to	o (viii) matri	is.	
•	(a) B ∩ A	(b) B C A	(c) A C B	(d) None
Question 23)	$(A \cap B) \cap C = A \cap (B \cap C)$ (a) commutative law	(b) closure law	(c) associative	(d) None
Question 24)	If $A = \{2, 3\} \& B = \{1, 2, 3, 4\}$ (a) $A \subset B$	(b) B C A	(c) B <u>C</u> A	(d) None
Question 25)	$A = \{1, 2, 3\}$ $B = \{6, 7, 8\}$ t (a) equal sets	(b) equivalent sets	(c) disjoint sets	(d) None of these
		<u> Chapter – 7</u>		
Question 1)	On what a discount is calc	ulated		
Question 2)	(a) S.P On which figure the VAT of		(c) C.P.	(d) None of these
Question 3)	(a) S.P On which of the following			(d) None of these
Question 4)		(b) C.P O then there is a gain of Rs (b) 22%	(c) M.P .20, which of the following (c) 20%	(d) None of these is the gain percent? (d) 16%
Question 5)	(a) 25% An article is at 10% more (a) 1% gain	• •	10% is allowed then which (c) no gain o loss	• •
Question 6)			ım. Which of the following	` '
	(a) P [ 1 - $\frac{R}{100}$ ]	(b) P $\left[1 + \frac{R}{100}\right]$		
	(c) $P\left\{\left(1 + \frac{R}{100}\right) - 1\right\}$	(d) P $\left[1 - \left(1 - \frac{F}{F}\right)\right]$	<u>-</u> 1	
Question 7)			ים $_{00}$ ע $_{ m v}$ ved then what should be th	ne sale price
	(a) Rs.10	(b) Rs.9	(c) Rs.11	(d) None of these
Question 8)	(a) reduced to half	(b) reduced to one fourth		y? (d) becomes four times
Question 9)	What time period is taken (a) twice as much as the		ed half- yearly?	
	(b) half as much as the n			
	(c) same as the number (	of given years		
Question 10)	(d) None of these What should be percented	ne gain on a product when	it is sold for Rs.120 with a	gain of Rs 20
Question 10)	(a) 20%	(b) 25%	(c) 22%	(d) 16.25%
Question 11)	If 80% of x is 256, then val (a) 350	(b) 300	(c) 320	(d) 400
Question 12)	22% of [80 – 15% of 200] = (a) 220	= (b) 11	(c) 44	(d) 18
Question 13)	What percent of $\sqrt{0.0144}$	is 0.0108		
0 44)	(a) 0.9	(b) 0.1	(c) 9	(d) 0.09
Question 14)			ch was $2\frac{1}{2} 2\frac{1}{4}$ . By what % v	vas the salary in April
	More than the salary in M (a) $10\frac{1}{9}$ %	arcn. (b) 12 <sup>1</sup> / <sub>9</sub> %	(c) $11\frac{1}{9}$ %	(d) None of these
Question 15)	$\frac{(a)}{9}$ $\frac{10^{6}}{9}$ $\frac{3}{9}$ $\frac{12\%}{9}$ of Rs.600 =	(b) $12\frac{1}{9}$ /0	(c) 11 <del>9</del> 70	(a) None of these
·	(a) 50	(b) 58	(c) 72	(d) 68
Question 16)	$33\frac{1}{3}$ % of 2400 people = (a) 800	(b) 7200	(c) 2400	(d) 1600
Question 17)	48% of 1 litre	(b) 7200	(c) 2400	(d) 1600
	(a) 240ml	(b) 360ml	(c) 800ml	(d) 480ml
Question 18)	$7\frac{1}{7}\%$ of 3kg 500g	(b) 100a	(a) 2F0a	(d) 2E00~
Question 19)	(a) 350g Increase Rs.90 by 18% =	(b) 100g	(c) 250g	(d) 3500g
•	(a) 106.20	(b) Rs.16.80	(c) 108.30	(d) None
Question 20)	Express 15kg as a percent (a) 25%	of 75kg (b) 30%	(c) 35%	(d) 20%
Question 21)	Fraction of 15% =			
Ougation 22)	(a) $\frac{15}{100}$	(b) $\frac{5}{20}$	(c) $\frac{5}{25}$	(d) None
Question 22)	Per cent means (a) Per hundred	(b) Per thousand	(c) Per ten	(d) Per zero
Question 23)	25% as fraction	_		
Ouestion 24	(a) $\frac{3}{5}$	(b) $\frac{5}{20}$	(c) $\frac{5}{25}$	(d) $\frac{25}{75}$
Question 24)	Rs.25 of Rs.100 are (a) 10%	(b) 20%	(c) 25%	(d) 30%
Question 25)	Rs.115 to Rs.100, decreas	e =		
	(a) $\frac{15}{115} \times 100\%$	(b) $\frac{15}{100} \times 100\%$	(c) $\frac{15}{100} \times 115\%$	(d) None

#### Chapter - 12

0 11 1)		•	_	
Question 1)	Monomial contains :	(h) 2 torms	(a) 2 tarms	(d) None
Question 2)	(a) One term Binomial contains	(b) 2 terms	(c) 3 terms	(d) None
Question 2)	(a) One term	(b) 2 terms	(c) 3 terms	(d) None
Question 3)	Trinomial contains	(4) _ ********	(-)	(-)
•	(a) One term	(b) 2 terms	(c) 3 terms	(d) None
Question 4)	In 8x <sup>2</sup> y <sup>2</sup> what is numerical			
	(a) 8	(b) $x^2$	(c) 1	(d) $x^2y^2$
Question 5)	$\ln \frac{-2}{3}$ yz what is literal coefficients	efficient		
	(a) $\frac{-2}{3}$	(b) y	(c) z	(d) yz
Question 6)	In x what is numerical coe	efficient		
	(a) 1	(b) x	(c) 0	(d) None
Question 7)	The degree of 9x – 19 is			
0 11 0	(a) two	(b) three	(c) one	(d) four
Question 8)	No. of terms in $3x^2 - 5x +$		(a) a	(al) a a
Question 9)	(a) 5 No. of terms in 3x <sup>2</sup>	(b) 3	(c) 2	(d) one
Question 9)	(a) 2	(b) 3	(c) 1	(d) 0
Question 10)	The numerical coefficient	• •	(0)	(a) 0
	(a) 2	(b) π	(c) 2 π	(d) π
Ougstion 11)		• •	(6) Z N	(a) 10
Question 11)	The degree of polynomial $4x^2y^2-7xy^3+2x^4-3y^4+x^3y$			
	(a) 2	(b) 5	(c) 4	(d) -8
Question 12)	$17x^3y^2z$ is	(5) 0	(0)	(a) 0
,	(a) monomial	(b) binomial	(c) trinomial	(d) None
Question 13)	$y^4 - 3y^2 + 19$ is			
	(a) binomial	(b) trinomial	(c) monomial	(d) None
Question 14)	Adding 2a & 5a gives	(1) 40 2	( <b>) 7</b> 2	/ IN 7
Ougstion 15)	(a) 10a	(b) 10a <sup>2</sup>	(c) 7a <sup>2</sup>	(d) 7a
Question 15)	3b × 6b is equal to (a) 3b	(b) 36b <sup>2</sup>	(c) 18b <sup>2</sup>	(d) 6b
Question 16)	The literal coefficient of –		(C) 10D	(u) 0b
2400	(a) ab <sup>2</sup>	(b) – 5	(c) a	(d) $b^2$
Question 17)	The degree of -2x + 9 is	•	•	• •
	(a) 1	(b) 0	(c) -2	(d) 9
Question 18)	$m - 8m^3 + m^4 - 2m^2$ is			
O !! 10\	(a) monomial	(b) binomial	(c) trinomial	(d) polynomial
Question 19)	$y^4 - 3y^2 + 19$ is (a) Monomial	(b) binomial	(c) trinomial	(d) polynomial
Question 20)	$-z + \sqrt{3} z^3 is$	(b) biriorniai	(C) tririorniai	(u) polynomiai
Question 20)	(a) Monomial	(b) binomial	(c) trinomial	(d) polynomial
Question 21)	- 11 – 7x is	(b) biriormai	(c) trinornia	(a) polynomiai
,	(a) monomial	(b) binomial	(c) trinomial	(d) polynomial
Question 22)	Divide 28 a³b² c by 7ab we	e have		
	(a) 5a <sup>4</sup> b <sup>2</sup> c	(b) 4a <sup>2</sup> bc	(c) 4a <sup>3</sup> b <sup>2</sup> cd	(d) None
Question 23)	Divide $48a^4b^5c^6$ by $-16a^2c^6$		( ) 0 21 5 2	/ IN A1
Ougstion 24)	(a) $3a^2b^5c^4$	(b) $-3a^2b^5c^4$	(c) $-3a^3b^5c^3$	(d) None
Question 24)	Divide $(x^2 + 2x)$ by $x + 2$ (a) $x + 2$	(b) x <sup>2</sup>	(c) x	(d) 0
Question 25)	(a + b) (a - b) is equal to	(D) A	(U) A	(u) U
	(a) $a^2+b^2+2ab$	(b) a <sup>2</sup> +b <sup>2</sup> -2ab	(c) $a^2 - b^2$	(d) $a^2 + b^2$
		• •	, <i>,</i>	• ,

Question 1)	$(x + 4) (x + 2)$ is equal to (a) $x^2+8x+6$	(b) $x^2+6x+8$	(c) $x^2+8$	(d) x <sup>3</sup> +b
Question 2)	(a + 1) (a + 8) is equal to (a) $a^2+8+9a$	(b) $a^2+8$	(c) $a^2+9$	(d) a <sup>2</sup> +9a+8
Question 3)	$(c + 3)$ . $(c + 2)$ is equal to (a) $c^2+5c+6$	(b) c <sup>2</sup> +6c+5	(c) $5c^2+6c+1$	(d) None of the above
Question 4)	(y - 7). $(y + 3)$ is equal to	,	(C) 5C +0C+1	(d) None of the above
Question 5)	(a) b <sup>2</sup> -7b+10 (b - 2) (b - 5) is equal to	(b) b <sup>2</sup> -10b+7	(c) 7 + 10b	(d) $7b^2 + 10b - 1$
,	(a) $b^2 + 10b + 5$	(b) $b^2+6b+7$	(c) $b^2$ -7b+10	(d) 0
Question 6)	Square of 93 (a) 8659	(b) 8649	(c) 8639	(d) 8629
Question 7)	Square of 99 (a) 9701	(b) 9601	(c) 9801	(d) 9901

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Question 8)	Square of 8.4	, , , ,		
2000.00,	(a) 80.5	(b) 90.5	(c) 70.56	(d) 60.56
Question 9)	The square of 98 is	(3)	(5)	(,
,	(a) 9604	(b) 9804	(c) 9614	(d) None
Question 10)	The square of 1003 is	, ,		. ,
·	(a) 10,60,009	(b) 10,00,6009	(c) 10,06,009	(d) 10,00,0069
Question 11)	The square of 999 is			
	(a) 998091	(b) 998001	(c) 998991	(d) 998061
Question 12)	The square of 10.8 is			
	(a) 117.84	(b) 116.94	(c) 115.24	(d) 116.64
Question 13)	The square of 99.99 is			
	(a) 9998.0010	(b) 9999.01	(c) 9999.80	(d) 9998.0001
Question14)	$9m^2 - () + 64n^2$ , fill t	he blanks		
	(a) -48mn	(b) 48mn	(c) 6mn	(d) 24mn
Question 15)	() + 48x + 64			
	(a) 25x <sup>2</sup>	(b) 16x <sup>2</sup>	(c) $6x^2$	(d) 9x <sup>2</sup>
Question 16)	25a <sup>2</sup> + 120ab + ()			
	(a) 144b <sup>2</sup>	(b) 144a <sup>2</sup>	(c) 12b <sup>2</sup>	(d) 0
Question 17)	Find the value of 102×98			
	(a) 9996	(b) 9886	(c) 9896	(d) 9006
Question 18)	505 × 495			
	(a) 2,40,975	(b) 2,49,975	(c) 259,975	(d) 2,69,975
Question 19)	1.97 × 2.03	# N = ====		( 0
	(a) 4.9991	(b) 5.9991	(c) 6.9991	(d) 3.9991
Question 20)	200.04 × 199.66	(1.) 00000 0004	( ) 00000 0074	( 1) 00000 0074
0 11 04)	(a) 29999.9984	(b) 39999.9984	(c) 39999.9974	(d) 39999.9874
Question 21)	The value of $(a + 2b) (a - b)$		(a) a? Ob?	(4) O
O	(a) $a^2 + 4a^2$	(b) $a^2 - 4b^2$	(c) $a^2 - 9b^2$	(d) 0
Question 22)	The value of $(3 + 2b) (3 - 2b)$	20) (b) 9 + 4b <sup>2</sup>	(a) 0 . 2h	(d) 0 2h2
Question 23)	(a) $9 - 4b^2$	• •	(c) 9 + 2b	(d) $9 - 2b^2$
Question 23)	The value of (6b + 3a) (6b (a) 81b <sup>2</sup> – 9a	(b) 81b <sup>2</sup> – 9b <sup>2</sup>	(c) $81 + 9b^2$	(d) $36b^2 - 9a^2$
0		` '	(C) 01 + 9D	(u) 300 – 9a
Question 24)	If $x + \frac{1}{x} = 3$ , then $x^2 + \frac{1}{x^2}$	is		
	(a) 9	(b) 6	(c) 7	(d) 5
Question 25)	If $x + \frac{1}{x} = 5$ , then $x^2 + \frac{1}{x^2}$	is		
	(a) 25	(b) 27	(c) 23	(d) 22

Question 1)	Scalene triangle is a trian	gle with sides		
	(a) all lengths same	(b) two lengths same	(c) all angles equal	(d) no side same
Question 2)	Isosceles triangle is a tria	ngle with sides		
	(a) all lengths same	(b) two lengths same	(c) all angles same	(d) no angle same
Question 3)	Equilateral triangle is a tr	iangle with		
	(a) all sides equal	(b) no side equal	(c) two sides equal	(d) two angle equal
Question 4)	An acute angle means an	gle		
	(a) equal to $90^{\circ}$	(b) less than 180°	(c) less than 90°	(d) equal to 90°
Question 5)	An obtuse angle means a			
	(a) more than 180°	(b) more than 90°	(c) equal to 90°	(d) None of these
Question 6)	Measure of right angle is			
	(a) $90^{\circ}$	(b) $60^{\circ}$	(c) $120^{\circ}$	(d) $180^{\circ}$
Question 7)	Sum of all angles of triang	gle is		
	(a) $540^{\circ}$	(b) 360 <sup>0</sup>	(c) $120^{\circ}$	(d) 180 <sup>0</sup>
Question 8)	In a right angled triangle			
	(a) base	(b) Perpendicular	(c) Hypotenuse	(d) None
Question 9)	Right – angled triangle m			
	(a) four right angles		(c) one right angle	(d) two right angles
Question 10)	Triangles can be classified			
		sides (b) the types of angle	es (c) length of the segme	ents (d) both a & b
Question 11)	Obtuse angled triangle m	ust have		
	(a) four obtuse angles	(b) three obtuse angles	(c) two obtuse angles	(d) one obtuse angle
Question 12)	Acute – angled triangle m			
	(a) three acute angles		(c) four acute angles	(d) only one acute angle
Question 13)	· ·	not a criterion for congrue	- C	
	(a) SAS	(b) A.S.A	(c) S.S.A	(d) SSS
Question 14)	If $AB = QR$ , $BC = PR & CA$			
	(a) $\triangle$ ABC $\cong$ PQR		(c) $\triangle$ BAC $\cong$ RPQ	(d) $\triangle$ PQR $\cong$ BCA
Question 15)	In $\triangle$ ABC, AB = AC & $<$ $\angle$ B		_	
	(a) $40^{\circ}$	(b) $50^{\circ}$	(c) $80^{\circ}$	(d) $130^{\circ}$
Question 16)	In $\triangle$ ABC, BC = AB & $\angle$ B =		_	
	(a) $80^{\circ}$	(b) 40 <sup>0</sup>	(c) $50^{\circ}$	(d) $100^{\circ}$

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Question 17)	In $\triangle$ PQR, $\angle$ R = $\angle$ P & QR = 4cm and PR = 5cm. Then the length of PQ is				
	(a) 4cm	(b) 5cm	(c) 2cm	(d) 2.5cm	
Question 18)	D is a point on the side B	C of a $\triangle$ ABC such that AD	bisects∠BAC. Then		
	(a) BD = CD	(b) BA > BD	(c) BD > BA	(d) CD > CA	
Question 19)	It is given that $\triangle$ ABC $\cong \triangle$	A FDE and AB = $5$ cm, $\angle$ A =	80°. Then which of the follo	owing in true?	
	(a) DF = $5 \text{cm}$ , $\angle F = 60^{\circ}$	(b) DF = 5cm, $\angle E = 60^{\circ}$	(c) DE = $5cm_{,} \angle E = 60^{\circ}$	(d) DE = 5cm, $\angle D = 40^{\circ}$	
Question 20)	Two sides of a triangle ar	e of lengths 5cm and 1.5cr	m. The length of third side (	of the triangle connot be	
	(a) 3.6cm	(b) 4.1cm	(c) 3.8cm	(d) 3.4cm	
Question 21)	In $\triangle$ PQR , if $\angle$ R > $\angle$ Q the	n			
	(a) QR > PR	(b) PQ > PR	(c) PQ < PR	(d) QR < PR	
Question 22)	In triangles ABC & PQR AB = AC, $\angle$ C = $\angle$ P and $\angle$ B = $\angle$ Q. The two triangles are				
	(a) isosceles but not congruent (b) isosceles and congruent				
	` '	sceles (d) neither cong			
Question 23)	In triangles ABC and DEF	, AB = FD & ∠A = ∠D. The t	wo triangles will be congru	ent by S.A.S axiom if	
	(a) BC = EF	(b) $AC = DE$	(c) $AC = EF$	(d) $BC = DE$	
Question 24)	Sum of complementary a	ingles is			
	(a) 90 <sup>0</sup>	(b) 18 <sup>0</sup>	(c) $360^{\circ}$	(d) $540^{\circ}$	
Question 25)	Sum of supplementary ar				
	(a) $90^{\circ}$	(b) 180 <sup>0</sup>	(c) $360^{\circ}$	(d) $540^{\circ}$	

**←**