NSTRUCTIO	NS NUME	BER OF QUESTIONS	6 : 100	TIME : 2 Hrs
. ATTEMPT ALL EACH QUESTI NO NEGATIVE DON'T DO RO USE BLACK (C	QUESTIONS WITHIN TI ON CARRIES 1 MARK MARKS. DUGH WORK ON QUEST DR) BLUE PEN FOR BUE	HE TIME. ION PAPER AND ON BBLING ON OMR.	1R.	
	OD OF BUBBLING		WRONG METHOD	
	<u>INTO 9™(</u>	CLASS STATE&	CBSE	
	M	ATHEMATICS		
Which of th	e following is a termina	ting decimal		
$1)\frac{2}{11}$	2) $\frac{3}{27}$	$3)\frac{17}{25}$	4) $\frac{1}{15}$	
In a square A	ABCD, $AB = (2x+3)cr$	n and BC = $(3x-5)$ cr	n then value of	f x is
1)4	2) 5	3)6	4) 8	
$\sqrt{176} + \sqrt{24}$	01 =			
1)14	2) 15	3)16	4) 17	
Number of i	ntegers from -250 to 52	25 is		
1)775	2) 776	3)774	4) 276	
From a squa	re with side of length 5	, triangular pieces fr	om the four co	orners are
removed to	form a regular octagon.	Find the area remov	ved to the near	est integer?
1)3	2) 4	3)5	4) 6	
Simplify : $\frac{2}{5}$	$\frac{2}{5} + \frac{8}{3} - \frac{11}{15} + \frac{4}{5} - \frac{2}{3}$			
1) $\frac{37}{15}$	2) $\frac{-37}{15}$	$3)\frac{-36}{5}$	4) $\frac{-38}{3}$	3
Solve 0.3m	+0.4 = 0.28m + 1.16			
1) 2 0	2) 28	2)0.76	1) 76	

8.	$\sqrt[3]{74088} + \sqrt[3]{17576} = $					
	1)42	2) 76	3)66	4) 62		
9.	The mean of the rational numbers $\frac{1}{4}$ and $\frac{3}{2}$ is					
	$1)\frac{17}{8}$	2) $\frac{7}{8}$	$3)\frac{3}{4}$	4) $\frac{4}{3}$		
10.	The value of $\frac{2}{5} \times \frac{-3}{7}$	$\frac{3}{14} - \frac{1}{7} \times \frac{3}{5}$ is				
	1)2	2) -2	$3)\frac{1}{2}$	4) $-\frac{1}{2}$		
11.	How many perfect	square numbers betwe	een 1 to 500 is			
	1)22	2) 20	3)21	4) 19		
12.	The angles of a tria	ngle are in the ratio 5	: 3 : 7, then the valu	e of greatest angle is		
	1) 12 ⁰	2) 36 ⁰	3)84 ⁰	4) 60 ⁰		
13.	The probability of a	prime number card f	rom deck of cards			
	$1)\frac{15}{52}$	2) $\frac{4}{13}$	$3)\frac{5}{13}$	4) $\frac{17}{52}$		
14.	$\left(1-\frac{1}{2}\right)\left(1-\frac{1}{3}\right)\left(1-\frac{1}{3}\right)$	$\left(\frac{1}{4}\right)$ \left(1-\frac{1}{100}\right) =	:			
	1)0.09	2) 0.9	3)0.001	4) 0.01		
15.	Solve : $\frac{x}{2} - 1 = \frac{x}{3} + \frac{x}{3}$	4				
	$1)\frac{1}{6}$	2) $\frac{1}{30}$	3)30	4) 6		
16.	What is the multiple	icative inverse of zero)			
	1)0	2) 1	3)Does not exist	4) -1		
17.	Mohan's father is th	nrice as old as Mohan	. After 12 years he v	vill be just twice his son.		
	Then present age of	f father is				
	1)12yrs	2) 36yrs	3)48yrs	4) 24yrs		
18.	If $\frac{a}{b} = \left(\frac{2}{3}\right)^3 + \left(\frac{3}{2}\right)^{-3}$	then $a+b$ is				
	1) Even number		2) Composite nu	umber		
	3) Perfect number		4) Prime numbe	r		
<u>-</u>						

19.	If $(a-2020)^2 + (b+2021)^2 + (c-2022)^2 = 0$ then $a+b+c =$				
	1)2021	2) -2021	3)2020	4) 2022	
20.	$\frac{1}{2 \times 3} + \frac{1}{3 \times 4} + \frac{1}{4 \times 5}$	$\frac{1}{5 \times 6} + \dots + \frac{1}{2023}$	1 × 2024 =		
	$1)\frac{1}{2024}$	2) $\frac{1011}{1012}$	$3)\frac{2023}{2024}$	4) $\frac{1011}{2024}$	
21.	The degree of $\sqrt{62}$	5 is			
	1) 25	2) 1	3)0	4) Does not exist	
22.	A sum of ₹10,000 i	is borrowed at a rate of	of interest 15% per	annum for 2yrs, then the	
	amount paid on sin	nple interest is			
	1)₹11500	2) ₹12000	3)₹13000	4) ₹14000	
23.	The length of diago	onals of a Rhombus a	re 6cm and 8cm the	en perimeter of a Rhombus	
	is				
	1)40cm	2) 28cm	3)24cm	4) 20cm	
24.	Statement (A) : There are infinite rational numbers lie between 1 and 2				
	Statement (B) : infinite rational numbers lies between any two given rational				
	numbers is called dense property				
	1) Both A and B are true2) A is true, B is false			is false	
	3) A is false, B is the	rue	4) Both A and	B are false	
25.	Which of the follow	wing cases, a parallelo	ogram "KING" can	not be constructed?	
	1) IN = 6cm. NG =	4.5 cm, IG = 7.5 cm	2) KI = 5cm. I	N = 6 cm, IG = 6.5 cm	
	3) KI = 5cm. IN = $($	6cm, IG = 13cm	4) KI = 5cm. I	N = 6 cm, IG = 8.5 cm	
26.	$28\sqrt{a} + 1426 = \frac{3}{4}$ o	of 2872, then the value	e of 'a' is		
	1)576	2) 676	3)1296	4) 1444	
27.	The width of the cl	ass 10-19 is			
	1)9	2) 8	3)14.5	4) 10	
28.	In quadrilateral AB	SCD, the internal bised	ctors of $\angle A$ and $\angle A$	$\angle B$ intersect at 'P' then	
	$\angle BPA =$	_			
	1)90 ⁰	2) $\angle C + \angle D$	$3)\frac{\angle A + \angle B}{2}$	4) $\frac{\angle C + \angle D}{2}$	

29.	The angles of a quadrilateral are in the ratio $1:2:3:4$, then the difference between				
	the largest and smallest angles $\left[if \ \pi = 180^{\circ}\right]$				
	$1)\frac{\pi}{5}$	2) $\frac{2\pi}{5}$	$3)\frac{3\pi}{5}$	4) $\frac{4\pi}{5}$	
30.	Which of the follow	ving is a Rational num	nber		
	1)5.2323	2) 1.23874	3)0.4567	4) 5.1785	
31.	$\sqrt{0.0009} + \sqrt{0.01} +$	$\sqrt{0.81} + \sqrt{1.21} =$			
	1)2.13	2) 2.11	3)2.1	4) 2.03	
32.	If $(3x - 15)$ and $(x + 3)$	- 5) are complementa	ry angles, then the d	ifference between them is	
	1)25 ⁰	2) 60 ⁰	3)10 ⁰	4) 30°	
33.	The sum of three co	nsecutive odd numbe	ers is 81. Then the mi	iddle number is	
	1)25	2) 27	3)31	4) 29	
34.	If $2^x = \sqrt[3]{32}$ then $x =$	=			
	$1)\frac{5}{2}$	2) $\frac{5}{3}$	3)15	4) $\frac{3}{5}$	
35.	The probability of g	etting a face card from	m deck of cards		
	$1)\frac{1}{13}$	2) $\frac{2}{13}$	$3)\frac{3}{13}$	4) $\frac{4}{13}$	
36.	Amount when interest is compounded half-yearly for ₹62,500 in $1\frac{1}{2}$ years at 8% per				
001	annum.			2	
	1)₹70,704	2) ₹70,304	3)₹77,804	4) ₹77,504	
37.	The smallest 4-digit	perfect square is			
	1)1000	2) 1024	3)1036	4) 1016	
38.	Which of the follow	ving is incorrect			
	1) $N \subset W \subset Z \subset Q$	2) $W \subset Q \subset R$	$3) N \subset W \subset Z \subset S$	4) $W \subset Z \subset Q \subset R$	
39.	What is the smallest	t positive integer which	ch when multiplied b	by 2816, give a perfect	
	square?				
	1)2	2) 3	3)4	4) 11	
40.	The least number to	be subtracted from 5	49162 to make it a p	erfect square	
	1)81	2) 5	3)15	4) 41	

41.	The interior angle of a regular polygon is 108. Then the number of sides of the				
	polygon is				
	1)4	2) 5	3)7	4)	8
42.	Area of a square plo	ot is 2304m ² , then its o	diagonal is		
	1)48m	2) $24\sqrt{2}m$	3)96m	4)	$48\sqrt{2}m$
43.	Which of the follow	ving statement is true			
	$1)\frac{5}{7} < \frac{7}{9} < \frac{9}{11} < \frac{11}{13}$	2) $\frac{5}{7} < \frac{11}{13} < \frac{9}{11} < \frac{7}{5}$	$3)\frac{11}{13} > \frac{11}{9} > \frac{9}{11} > \frac{7}{11}$	- 4)	$\frac{5}{8} > \frac{7}{6} > \frac{11}{13} > \frac{15}{7}$
44.	Evaluate : $30 - \left[26\right]$	$-\left\{15+\left(8-\overline{6-3}\right)\right\}\right]$			
	1)30	2) 22	3)-7	4)	24
45.	Number of digits in	square of a '7' digit r	number is		
	1)14 (or)15	2) 49 (or) 50	3)7 (or) 8	4)	13 (or) 14
46.	In a pie chart, the ce	entral angle of a comp	onent is 72 ⁰ and its	valu	e is 24. Find the total
	value of all the com	ponents of data is			
	1)240	2) 120	3)360	4)	420
47.	Number of independent	dent measurements ar	e required to constru	ict a	Rhombus is
	1)1	2) 2	3)3	4)	4
48.	The value of $\sqrt[3]{\frac{8}{1250}}$				
	1)0.4	2) 0.04	3)0.8	4)	0.6
49.	A TV was bought at a price of ₹21,000. After one year the value of the TV was				
	depreciated by 5%, then the value of the TV after one year				
	1)₹18,850	2) ₹21000	3)₹19,000	4)	₹19,950
50.	Solve $16(3x-5)-1$	0(4x-8) = 40			
	1) $x = 7$	2) $x = 5$	3) $x = -7$	4)	<i>x</i> = 8
ARI	THMETIC AND LO	GICAL REASONIN	G QUESTIONS:		
51.	1, 2, 2, 3, 3, 3, 4, 4,	4, 4, Then 15	0th term is		
	1)15	2) 16	3)17	4)	18
52.	Odd one out in the f	following numbers is			
	1)112	2) 256	3)118	4)	214
53.	In a certain code M	ATH:LBSI, how "WI	ND" will be written	in t	hat code.
	1)VJEM	2) MJEV	3)EMJV	4)	VJME





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<i>03.</i>	Sound can travel th	rough						
	1)Gases only	2) Liquids only	3)Solids only	4) Slide, liquids, gases				
86.	Which of the following symbol represents battery							
	1)	2)+++++++	3)	4) + 				
87.	Find the angle of deviation of light ray after '2' reflection							
	M_2							
	500 K							
	1) 240 ⁰ clockwise	• • • • • • • • • • • • • • • • • • • •	2) 120° clockwi	ise				
	3) 240 [°] anticlockwi	se	4) 200° anticloc	ckwise				
00	Find the contact for	ce between 2kg block	k and 3kg block					
88.	3kg 2kg	1						
	1)6N	2) 4N	3)12N	4) 5N				
89.	Speed of sound on	earth at normal tempe	erature is 330m/s. Tl	ne speed of sound on				
	moon at same temp 1 220 m/s	erature is $(2) 2 \times 10^8 \text{ m/s}$	2)7	$(1) 2 \times 10^{8} m/s$				
90.	Phenomenon of spl	$\frac{2}{3 \times 10^{\circ} \text{ m/s}}$	<u>3)Zero</u> ferent colour's is kn	$\frac{4) \ 2 \times 10^{\circ} \text{m/s}}{\text{own as}}$				
201	1) Scattering 2) Total internal reflection							
	3) Dispersion 4) Diviation							
		CHE	MISTRY					
01	From the deposits of petroleum and natural gas the layer of petroleum oil is							
91.	From the deposits c	1		layer of water and layer of natural gas				
91.	layer of water and _	layer of natur	al gas					
91.	layer of water and _ 1) Above, below	12) Equal, below	al gas 3)Below, above	4) Above, equal				
<u>91.</u> 92.	layer of water and _ 1) Above, below Which of the follow	layer of natur 2) Equal, below ving gas is obtained f	al gas 3)Below, above rom Natural gas, use	4) Above, equal ed in the production of				
<u>91.</u> 92.	I ayer of water and _1) Above, belowWhich of the followfertilisers (urea)	2) Equal, below ving gas is obtained f	al gas 3)Below, above rom Natural gas, use	4) Above, equal ed in the production of				
91. 92.	 From the deposits of layer of water and 1) Above, below Which of the follow fertilisers (urea) 1) Nitrogen 	2) Equal, below ving gas is obtained f	al gas 3)Below, above rom Natural gas, use 3)Oxygen	4) Above, equaled in the production of4) Carbondioxide				
91. 92. 93.	 From the deposits of layer of water and 1) Above, below Which of the follow fertilisers (urea) 1) Nitrogen Which of the follow 	2) Equal, below ving gas is obtained f 2) Hydrogen ving is the pure form	al gas 3)Below, above rom Natural gas, use 3)Oxygen of carbon	 4) Above, equal ed in the production of 4) Carbondioxide 				
91. 92. 93.	 From the deposits of layer of water and 1) Above, below Which of the follow fertilisers (urea) 1) Nitrogen Which of the follow 1) Coke 	 layer of natura 2) Equal, below ving gas is obtained f 2) Hydrogen ving is the pure form 2) Coal gas 	al gas 3)Below, above rom Natural gas, use 3)Oxygen of carbon 3)Coal tar	 4) Above, equal ed in the production of 4) Carbondioxide 4) Bitumen 				
91. 92. 93. 93. 94.	 From the deposits of layer of water and 1) Above, below Which of the follow fertilisers (urea) 1) Nitrogen Which of the follow 1) Coke Which of the follow 	 layer of natura 2) Equal, below ving gas is obtained form 2) Hydrogen ving is the pure form 2) Coal gas ving is an exhaustible 	al gas 3)Below, above rom Natural gas, use 3)Oxygen of carbon 3)Coal tar matural resources?	 4) Above, equal ed in the production of 4) Carbondioxide 4) Bitumen 				
91. 92. 93. 93. 94.	 From the deposits of layer of water and	layer of natura 2) Equal, below ving gas is obtained f 2) Hydrogen ving is the pure form 2) Coal gas ving is an exhaustible 2) Air	al gas 3)Below, above rom Natural gas, use 3)Oxygen of carbon 3)Coal tar natural resources? 3)Coal	 4) Above, equal ed in the production of 4) Carbondioxide 4) Bitumen 4) Sea water 				
91. 92. 93. 93. 94. 95.	 From the deposits of layer of water and	layer of natura 2) Equal, below 2) Equal, below 2) Hydrogen 2) Hydrogen 2) Coal gas ving is an exhaustible 2) Air	al gas 3)Below, above rom Natural gas, use 3)Oxygen of carbon 3)Coal tar natural resources? 3)Coal	 4) Above, equal ed in the production of 4) Carbondioxide 4) Bitumen 4) Sea water 				
91. 92. 93. 93. 94. 95.	 From the deposits of layer of water and 1) Above, below Which of the follow fertilisers (urea) 1) Nitrogen Which of the follow 1) Coke Which of the follow 1) Sun light PCRA means 1) Petroleum consultation 	layer of natura 2) Equal, below ving gas is obtained f 2) Hydrogen ving is the pure form 2) Coal gas ving is an exhaustible 2) Air ming research associa	al gas 3)Below, above rom Natural gas, use 3)Oxygen of carbon 3)Coal tar natural resources? 3)Coal ation	 4) Above, equal ed in the production of 4) Carbondioxide 4) Bitumen 4) Sea water 				
91. 92. 93. 94. 95.	 From the deposits of layer of water and	layer of natura 2) Equal, below ving gas is obtained form 2) Hydrogen ving is the pure form 2) Coal gas ving is an exhaustible 2) Air ming research association	al gas 3)Below, above rom Natural gas, use 3)Oxygen of carbon 3)Coal tar natural resources? 3)Coal ation	 4) Above, equal ed in the production of 4) Carbondioxide 4) Bitumen 4) Sea water 				
91. 92. 93. 94. 95.	 From the deposits of layer of water and	layer of natura 2) Equal, below ving gas is obtained form 2) Hydrogen ving is the pure form 2) Coal gas ving is an exhaustible 2) Air ming research association rvation research association rvation registered association	al gas 3)Below, above rom Natural gas, use 3)Oxygen of carbon 3)Coal tar natural resources? 3)Coal ation on ciation ociation	 4) Above, equal ed in the production of 4) Carbondioxide 4) Bitumen 4) Sea water 				

96.	Which of the following is NOT a constituent of petroleum?				
	1)Diesel	2) Plastic	3)Paraffin wax	4) Lubricating	
97.	Which gas is obtained from natural gas and used to make fertilizers?				
	1)Hydrogen	2) Carbon dioxide	3)Nitrogen	4) Oxygen	
98.	Which of the follow	ring is not a free state	of carbon		
	1)Petrol	2) Coke	3)Diamond	4) All of above	
99.	How much percentage of carbon is present in bituminous?				
	1)20 - 25%	2) 65 - 85%	3)25-35%	4) 98%	
100.	100. Paheli is writing about the advantages of LPG. Which of the following statements are				
	incorrect				
	1) LPG does not leave behind any solid residue on burning				
	2) LPG produce many poisonous gases on burning				
	3) LPG burns with a smokeless flame and does not cause pollution				
	4) LPG has high calorific value and produce lots of heat				

THE END