IN	STRUCTIONS	NUMBER	OF QUESTIONS : 1	00 TIME : 2 Hrs
. . .	ATTEMPT ALL QUES EACH QUESTION CANO NO NEGATIVE MARK DON'T DO ROUGH V USE BLACK (OR) BL	TIONS WITHIN THE T ARRIES 1 MARK (S. WORK ON QUESTION UE PEN FOR BUBBLI	IME. PAPER AND OMR. NG ON OMR.	
	CORRECT METHOD OF	BUBBLING (4)	WRO	
		INTO 9	"CLASS ICSE	
	Which of the follo	wing is not a rational	l number	
	1)1.3	2) $\frac{5}{7}$	3) $\sqrt{27}$	4) $\sqrt{49}$
	Inverse ratio of $\frac{1}{a}$	$:\frac{1}{b} = $		
	1) <i>a</i> : <i>b</i>	2) <i>b</i> : <i>a</i>	3) <i>ab</i> : 1	4) 1: <i>ab</i>
	The product of $(x$	(x-3) is		
	1) $x^2 - 5x - 6$	2) $x^2 - x - 6$	3) $x^2 + x - 6$	4) $x^2 + 5x - 6$
	Decimal form of	⁸⁷ / ₃₂ is		
	1)2.7125	2) 2.71875	3)2.18725	4) 2.77815
	Which of the follo	wing is divisible by l	both 2 and 3 is	
	1)9604	2) 1764	3)4096	4) 537
	If $x > y$ then $\frac{1}{x}$	$\Box \frac{1}{y}$		
	1)>	2) <	3)=	4) ≥
	If $(16)^{x} = \frac{1}{(128)^{y}}$	then $4x + 7y + 1 =$		
	1)0	2) 2	2)1	<i>(</i>) 2

8.	There are 100 students in a hostel. Food provision for them is 20days. How long will these provisions last, if 25 more students join the group is				
	1)20 days	2) 18 days	3)24 days	4) 16 days	
9.	If $A \cup B = \{1, 2, 3, 4\}$	$4,5,6,7,8$ and $A \cap$	$B = \{3, 5, 7\}$ then the	e maximum number of	
	elements in the set l	B is			
	1)3	2) 5	3)8	4) Infinite	
10.	If $\frac{3x}{4} - 1 = \frac{x}{2} + 4$ t	then $x =$			
	1)21	2) 20	3)18	4) 22	
11.	In the parallelogram ABCD, if the internal bisectors of the consecutive an intersect at P then $\langle APR \rangle =$			onsecutive angles A and B	
	1)60	$2) 80^{0}$	<u>3)90</u> ⁰	4) Can't say	
10	4^x	C (1 1 C	161	3	
12.	If $P = \frac{1}{4^x + 2}$ then	sum of the values of	P when $x = \frac{1}{7}, \frac{1}{7}, \frac{1}{4}$	ana - is	
	1)1	2) 2	$3)\frac{23}{23}$	<u>4)</u> <u>43</u>	
	1)1	2)2	<i>3)</i> 4	4) 4	
13.	Radhika sold an art	icle at a profit of 10%	b. If the cost price of	it is ₹250 then selling	
	price is				
	1)₹225	2) ₹300	3)₹275	4) ₹265	
14.	What is the smalles	t number that must be	e multiplied by 392 b	become perfect cube is	
	1)3	2) 5	3)7	4) 4	
15.	$\left(\frac{1}{2}\right)^{-2} + (2)^{-1} = $				
	$(\frac{5}{1})\frac{5}{-1}$	2) $-\frac{9}{-1}$	3)1	4) $\frac{9}{-}$	
	<u> </u>	2	1	2	
16. Certain sum is lent on interest compounded quarterly			led quarterly for $2\frac{1}{2}$	years then number of	
	1)5	¹⁸ 2) 7	3)12	4) 10	
17.	Euler's formula is _				
	1) $E + F - V = 2$	2) $F + V = E - 2$	3) $F + V = E + 2$	4) E+V=F+2	
18.	Factorise : $a - x + 1$	-ax			
	1) $(a-1)(1-x)$	2) $(a+1)(1+x)$	3)(a+1)(1-x)	4) $(a-1)(x+1)$	
<u> </u>	<u>-</u>				















82.	The reaction is which energy is evolved is called				
	1) Exothermic reaction		2) Endothermic reaction		
	3) Decomposation reaction		4) Displacement reaction		
83.	3. A mixture of sand and Ammonium chloride separated by				
	1)Filtration	2) Distillation	3)Sublimation	4) Crystallization	
84.	Which of the follow	the following technique is used to separate carbon tetrachloride and water			
	1)Evaporation	2) Filtration	3)Separating funne	l 4) Distillation	
85.	. The sum of number of protons and number of neutrons present in the nucleu		ent in the nucleus of an		
	atom is called its				
	1) Mass number		2) Atomic number4) Number of neutrons		
	3) Number of electr	rons			
86.	86. If the atomic number of an atom is 17 and mass number is 35, the number of				
	will be				
	1)35	2) 17	3)18	4) 52	
87.	What is the chemic	is the chemical formula of Baking soda			
	1) Na_2CO_3	2) <i>NaHCO</i> ₃	3) HNO_3	4) $BaSO_4$	
88.	Two compounds ex	change their positive	neir positive and negative radicals respectively. This typ		
	of reaction called				
	1) Combination reaction		2) Decomposation reaction		
	3) Displacement rea	Displacement reaction		acement reaction	
89.	Which of the following is a chemical change				
	1) Burning of magn	nesium ribbon in air	2) Freezing of water4) Tearing of paper		
	3) Evaporation of v	vater			
90.	What did Rutherfor	d conclude from his a	alpha particle scatter	ring experiment	
	1) The mass of the	atom is evenly distrib	uted		
	2) The size of the nucleus is larger than that of the atom3) Most of the space inside the atom is empty				
01	4) Electrons are located in the nucleus				
91.	What is the chemic	al formula of calcium	phosphate		
	1) $Ca(PO_4)_2$	2) $Ca_3(PO_4)_2$	3) Ca_3PO_4	4) $Ca_2(PO_4)_3$	
92.	2. Boiling point of liquid A is 25°C and that of Liquid B is 40° which technique wi			which technique will you	
	use to separate thes	e miscible liquids.			
	1) Simple distillation2) using a separating funnel3) Centrifugation4) Fractional distillation		ating funnel		
			stillation		

93.	. The catalyst and promotor respectively used in the Haber process of industrial						
	synthesis of ammonia						
	1) Mo, V_2O_5	2) V_2O_5, Fe	3) <i>Fe</i> , <i>Mo</i>	4) <i>Mo</i> , <i>Fe</i>			
94.	(i) Copper does no	ot displace zinc from	zinc sulphate				
	(ii)Zinc can displace copper from copper sulphate						
	What do you notice from the above two sentences						
	1) High reactive metals can displace less reactive metals from its compound						
	2) High reactive metals cannot displace less reactive metals from its compound						
	3) Displacement takes place when reactivity of both the metals are equal						
	4) Less reactive metals can displace high reactive metals from its compound						
95.	According to the law of conservation of mass, 3gm of carbon burnt in 8gm of oxygen						
	forms 11gm of carbon dioxide. Now that will be the mass of carbondioxide produced						
	when 3gm of carb	on is burnt in 50gm	of oxygen				
	1)45gm	2) 47gm	3)53gm	4) 50gm			
96.	Rutherford experiment which established the nuclear model of the atom a beam of						
	1) β – particle which impinged on a metal foil and get absorbed						
	2) γ - rays which impinged on a metal foil and ejected electrons						
	3) Helium atoms which impinged on a metal ejected got scattered						
	4) Helium nuclei which impinged on a metal foil and got scattered						
97.	The valence in third row elements						
	1) Gradually increase from Na to Ar 2) Gradually decreases Na to Ar						
	3) Gradually increases from Na to Si and then decreases from Si to Ar						
	4) Remains constant						
98.	An enzyme which changes cane sugar into glucose and fructose is known as						
	1)Zymase	2) Maltase	3)Invertase	4) Diastase			
99.	What is the amount of CO_2 formed when 10gms of $CaCO_3$ is strongly heated.						
	1)2.2gm	2) 4.4gm	3)6.6gm	4) 8gm			
100.	00. Boron has two stable isotopes, ${}^{10}B(19\%)$ and ${}^{11}B(81\%)$. Average atomic weight for						
	Boron in the periodic table is						
	1)10.8	2) 10.1	3)11.2	4) 10.5			
<u>-</u>	THE END						