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FOR ANSWERS

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Q1. For two statements are given-one labelled Assertion (A) and the other labelled Reason (R). Select the correct answer to these questions from the codes (a), (b), (c) and (d) as given below.

Assertion: Equal moles of different substances contain same number of constituent particles

Reason: Equal weights of different substances contain the same number of constituent particles.

A. Both A and R are true and R is the correct explanation of A.

C. A is true but R is false.

B. Both A and R are true but R is not the correct explanation of A.

D. A is false and R is also false.

Q2. The average molar mass of air becomes more in presence of which gas if present in air:

A. H2

B. N2

C. C2H

D. CH4

Q3. A compound contains 69.5% oxygen, 30.5% nitrogen and its molecular weight is 92. The formula of compound is:

A. N2O

B. NO2

C. N2O4

D. N2O5

 $^{\mathbf{Q4.}}$ If the density of a solution is 3.12g mL $^{-1}$, the mass of 1.5mL solution in significant figures is ______

A. 4.7g

B. $4680 \times 10-3g$

C. 4.680g

D. 46.80g

Q5. The empirical formula and molecular mass of a compound are CH₂O and 180g respectively. What will be the molecular formula of the compound?

A. C₉H₁₈O₉

B. CH₂O

C. C₆H₁₂O₆

D. C₂H₄O₂

Q6. Which of the following subatomic particle is lightest?

A. Neutron

B. Alpha particle

C. Electron

D. Deuterium

Q7. For two statements are given-one labelled Assertion (A) and the other labelled Reason (R). Select the correct answer to these questions from the codes (a), (b), (c) and (d) as given below:

Assertion: A chemical equation must always be balanced to apply stoichiometric calculations.

Reason: Balancing ensures the number of atoms of each element is equal on both sides.

A. Both Assertion and Reason are correct and Reason is the correct explanation of Assertion.

C. Assertion is correct but Reason is incorrect

B. Both Assertion and Reason are correct but Reason is not the correct explanation of Assertion.

D. Assertion is incorrect but Reason is correct.

Q8. 1 u=?

B. $\frac{1}{17}$ th the mass of one atom of the carbon -16 isotope

A. The mass of one atom of the carbon -12 isotope

C. $\frac{1}{12}$ ththe mass of one atom of the carbon -12 isotope

D. The mass of one atom of the carbon -16 isotope

Q9. Which is not one of the laws of chemical combinations?

1 Marks

1 Marks

A. Law of multiple proportion.

B. Law of conservation of mass.

C. Law of conservation of energy.

D. Law of definite proportion.

Q10. In the following reaction,

 MnO_2 , + $4HCI \rightarrow MnCl_2 + 2H_2O + Cl_2$

2 moles of MnO₂ react with 4 moles of HCl to form 11.2L Cl₂, at STP.

Thus, per cent yield of Cl₂ is:

1 Marks

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1 Marks

1 Marks

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Q11.	-	aken in same volume contair , there are '2N' molecules of		•	1 Marl
	A. N	B. 0.5N	C. 2N	D. 4N	
Q12.	Dalton's atomic theory w	vas based on:		:	1 Mar
	A. Law of chemical combinat C. Periodic table.	ion.	B. Mass theory. D. None of the above.		
Q13.	What is chemistry?			;	1 Marl
	A. Study of substances. C. Study of reactions to form	new substances.	B. Investigation of reactions and D. All of the above.	nd properties.	
Q14.		two elements can combine to ne with a fixed mass of other	·	·	1 Mark
	A. Avogadro's law. C. Law of multiple proportion	ns.	B. Law of definite composition D. Gay Lussac's law of gaseous		
Q15.		are 0.1 and 0.2 molar in a sun volume, then the final mole		e mixed with 25mL of B	NIOL
	A. 0.15M	B. 0.18M	C. 0.12M	D. 0.30M	-
A. explanation			ass	t in a compound. is not the correct	JOIN MY PAID TEST GROUP WITH
Q17.	At same temperature an	d pressure, equal volumes o	f gases contain the same nu	ımber of:	. ≸
	A. Molecules	B. Electrons	C. Protons	D. Particles	I
Q18.	Who laid the foundation combination along with of A. Proust. C. Dalton.	of chemical sciences by expentation of chemical scientists?	B. Antoine Lavoisier. D. None of the above.	s of chemical	NSWERS
O19	Photo-electric cell is not used i	in:	Si None of the above.		1 1 1 1 2 2 1
QIJ.	A. Television. C. Reproduction of sound in		B. Photography. D. Automatic switching of stre		1 Mark
Q20.	Which of the following p	roperty of an element never	changes?	:	1 Mark
	A. Valency C. Both A and B		B. Atomic weight D. None of the above		
Q21.	A solution is prepared by glucose.	dissolving 5.64g of glucose	in 60g of water. Calculate t	he mass percent of	1 Mark
	A. 8.59%	B. 6.85%	C. 9.34%	D. 3.59%	
Q22.	When mass is enclosed i will never change	n a system and no transfer o	of material and energy is allo	owed in or out, it's	1 Marl

C. Temperature

C. 100%

D. 75%

A. 25%

A. Quality

B. Quantity

B. 50%

D. Shape

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Q23.	Mass of atom expressed in a	atomic mass unit is:			1 Marks	
	A. Atomic mass C. Atomic number		B. Molecular mass D. None of the above			
Q24.	The mass of a sand and pow is 20g, find the % composit (weight of beaker = 20g).		-	mass of the dried mixture	1 Marks	
	A. 20%	B. 36%	C. 55%	D. 60%		
Q25.	Which of the following term	s are unitless?			1 Marks	
	A. Molality.	B. Molarity.	C. Mole fraction.	D. Mass percent	t.	
Q26.	The relative atomic mass of this ?	naturally occurring chl	orine is not a whole numbe	er. What is the reason for	1 Marks	
	A. Chlorine atoms can have diffe C. Chlorine is unstable.	rent number of neutrons.	B. Naturally occurring chlo	orine cannot be obtained pure. ons has been included.		
Q27.	What is the mass of the solv	ent present in 200g of	25% (w/ W) calcium hydr	oxide solution?	1 Marks	
	A. 150g	B. 125g	C. 175g	D. 100g	£ 7	
Q28.	Which law states that in a chemical reaction, the total number the reactants?		otal mass of the products is	s equal to the total mass o	JOIN MY PAID TE	
	A. Law of constant proportions C. Law of conservation of mass		B. Law of conservation of D. Law of multiple propor	= -	Y PAID	
	correct option out of the following statements.		mass is 3.0g. On the basis		EST GROUP WIT	
	Student		Reading	<u> </u>	WIT	
			(i)	(ii)	││∄ 🤻	
	Α		3.01	2.99	8050 AN	
	В		3.05	2.95	8056206308 ANSWERS	
	A. Results of both the students a precise.	re neither accurate nor	B. Results of student A are	e both precise and accurate.	RS	
	C. Results of student B are neither precise nor accurate. D. Results of student B are both precise and accurate.					
Q30.	For two statements are give correct answer to these que Assertion: 1.231 has three signers Reason: All numbers right to	stions from the codes (Inificant figures	(a), (b), (c) and (d) as give	• •	1 Marks	
	A. Both A and R are true and R is the correct explanation of A.		B. Both A and R are true be explanation of A. D. A is false and R is also for			
031	C. A is true but R is false. What is the atomic mass (u	of calcium?	D. A is laise dilu n is diso i	aise.	1 Marks	
٠	A. 10	B. 20	C. 30	D. 40	I WIGLES	
032	For two statements are give				1 Marks	
	correct answer to these que		• •	• •	T IVIGINS	

Assertion: The empirical mass of ethene is half of its molecular mass.

	compound.					
	A. Both A and R are true and A.C. A is true but R is false.	nd R is the correct explanation of	B. Both A and R are true but R is no explanation of A.D. A is false and R is also false.	ot the correct		
O22		a colution, which contains E PER of No			4 84	
ŲSS.	A. 4mol L–1	a solution, which contains 5.85g of Na B. 20mol L-1	C. 0.2mol L–1	D. 2mol L–1	1 Marks	
034						
Q34.	mass of sulphur, metal		a high temperature lubricant.	II M5 ₂ IS 40.06% by	1 Marks	
	A. 160amu	B. 64amu	C. 40amu	D. 96amu		
O2E	One a.m.u is defined a		C. 40amu	D. Soamu	4 8 4	
Q33.	A. $\frac{1}{16}$ mass of one oxygen C. $\frac{1}{12}$ mass of one carbo	en atom.	B. $\frac{1}{14}$ mass of one atom of nitro D. None of above.	gen.	1 Marks	
Q36.	One of the statements of Dalton's atomic theory is given below: "Compounds are formed when atoms of different elements combine in a fixed ratio". Which of the following laws is not related to this statement?					
	A. Law of conservation of mass. C. Law of multiple proportions.		B. Law of definite proportions.D. Avogadro law.		JOIN MY PAID TEST GROUP WITH	
Q37.	How many moles are present in 6.023×10^{22} molecules of CO_2 ?					
	A. 0.2	B. 0.01	C. 0.1	D. 0.02	D H	
Q38.	If the concentration of glucose ($C_6H_{12}O_6$) in blood is 0.9g L^{-1} , what will be the molarity of glucose in					
	blood?	0 12 0/	•		GR(
	A. 5M	B. 50M	C. 0.005M	D. 0.5M		
Q39.	For two statements are given-one labelled Assertion (A) and the other labelled Reason (R). Select the correct answer to these questions from the codes (a), (b), (c) and (d) as given below: Assertion: The atomic mass of an element is a relative quantity. Reason: It is expressed relative to 1/12th the mass of a carbon-12 atom.					
	A. Both Assertion and Reason are correct and Reason is the correct explanation of Assertion.C. Assertion is correct but Reason is incorrect.		B. Both Assertion and Reason are correct but Reason is no the correct explanation of Assertion.D. Assertion is incorrect but Reason is correct.		ANSWERS	
Q40.	A gas is found to have	the formula (CO) _x . Its vapour	density is 70. The value of x w	ill be:	1 Marks	
	A. 7	B. 4	C. 5	D. 6		
Q41.	Which scientist propose	ed the concept of atomic mass	?		1 Marks	
	A. Avogadro	B. Gay Lussac	C. Proust	D. Dalton		
Q42.	correct answer to these Assertion: Volume of a g	e questions from the codes (a) as is inversely proportional to t	(A) and the other labelled Reas, (b), (c) and (d) as given belothe number of moles of gas. products is in agreement with	w.	1 Marks	
	A. Both A and R are true at A.C. A is true but R is false.	nd R is the correct explanation of	B. Both A and R are true but R is not explanation of A.D. A is false and R is also false.	ot the correct		
Q43.	Which statement is link contain the same numl		tical containers filled with diffe	rent gases will	1 Marks	

C. Dalton

A. Mosely

B. Avagadro

4/17

D. Mendeleev

5/17

Q56.	For two statements are given-one labelled Assertion (A) and the other labelled Reason (R). Select the correct answer to these questions from the codes (a), (b), (c) and (d) as given below. Assertion: Molecular weight of a compound is 44 if its vapour density is 22. Reason: Vapour density . 2= Molecular weight.				
	A. Both A and R are true aA.C. A is true but R is false.	and R is the correct explanation of	B. Both A and R are true but R explanation of A.D. A is false and R is also false		
Q57.	Who is given the cred	it for creation of first nuclear re	eactor.		1 Marks
	A. Fermi	B. Niels Bohr	C. Einstein	D. Oppenheime	r
Q58.	Who proposed atom a	s an indestructible entity?			1 Marks
	A. Rotherford	B. Dalton	C. Thomson	D. Pauli	
Q59.	0.2429g sample of po	tassium is heated in oxygen, 0.compound?	.440g of a crystalline compo	ound is obtained. What	1 Marks
	A. KO	B. K2O	C. KO2	D. KO3	
Q60.	Who is called father or	f modern chemistry ?			1 Marks
	A. Antoine Lavoisier.C. Gibbs.		B. Gilbert Lewis. D. Otto Hahn.		JOIN MY PAID
Q61.	Which of the following	statements is correct about th	e reaction given below: 4Fe	$e(s) + 3O_2(g) \rightarrow$	N S
	2Fe ₂ O ₃ (g).				
	A. Total mass of iron and oxygen in reactants = total mass of iron and oxygen in product therefore it follows law of conservation of mass.		B. Total mass of reactants = total mass of product; therefore, law of multiple proportions is followed.		TEST
C. Amount of Fe2O3 can be increased the reactants (iron or oxygen) in eactants					GROUP WITH
Q62.	Na ₂ SO ₃ ·xH ₂ O has 50%	% H ₂ O by mass. Hence, x is:			NIT.
	A. 4	B. 5	C. 6	D. 7	
Q63.	Given that, the abund atomic mass of Fe is:	ances of isotopes ⁵⁴ Fe, ⁵⁶ F4 ar	nd ⁵⁷ Fe are 5%, 90% and 5 ^o	% respectively, the	ANSWERS
	A. 55.85	B. 55.95	C. 55.75	D. 56.05	S
Q64.	correct answer to the Assertion: Significant fig	re given-one labelled Assertion se questions from the codes (a) gures for 0.200 is 3 whereas for dor right of a number are significant.), (b), (c) and (d) as given l r 200 it is 1	below.	1 Marks
	A. Both A and R are true a A. C. A is true but R is false.	and R is the correct explanation of	B. Both A and R are true but F explanation of A. D. A is false and R is also false		
Q65.		e given-one labelled Assertion			1 Marks
4001	correct answer to the	se questions from the codes (a) r mass of CO ₂ is 44 g/mol.	• •	` '	Tividiks
	Reason: Carbon has ato	omic mass 12 u and oxygen has	s atomic mass 16 u.		
	A. Both Assertion and Rea	ason are correct and Reason is the	B. Both Assertion and Reason the correct explanation of A		

D. Assertion is incorrect but Reason is correct.

C. Assertion is correct but Reason is incorrect.

Q66.	Active mass of 6% solu	ition of compound X is 2. Mo	lecular weight of X would be:		1 Marks
	A. 6	B. 30	C. 60	D. 90	
Q67.	correct answer to these Assertion : The empirical	e questions from the codes (formula represents the exact	n (A) and the other labelled Re a), (b), (c) and (d) as given be ct number of atoms of each ele nber ratio of atoms in a molecu	elow: ement in a molecule.	1 Marks
	A. Both Assertion and Reas correct explanation of A C. Assertion is correct but I		B. Both Assertion and Reason a the correct explanation of AsD. Assertion is incorrect but Rea	sertion.	
Q68.	correct answer to these	e questions from the codes (n (A) and the other labelled Re a), (b), (c) and (d) as given be g of sulphuryl chloride is 0.2.	` '	1 Marks
	Reason: Gram-molecules	s is equal to those molecules	which are expressed in gram.		
	A. Both A and R are true arA.C. A is true but R is false.	nd R is the correct explanation of	B. Both A and R are true but R is explanation of A.D. A is false and R is also false.	s not the correct	
Q69.	What is % composition	of a substance?			£ 70
	A. Sum of all the compone C. % of the total mass of a	nts.	B. % composition of the sum of D. None of the above.	two components.	JOIN MY PAID T
Q70.	 Arrange the following in the order of increasing mass (Atomic mass of O = 16, Cu = 63 and N = 14). a. One atom of oxygen. b. One atom of nitrogen. c. 1 × 10⁻¹⁰ mole of oxygen. d. 1 × 10⁻¹⁰ mole of copper. 				
	A. < < < V. C. < < V < .		B. I < II < III < IV. D. IV < II < III < I.		& NOTES, WHATSAPP -
Q71.	If $3.01 \times 10_{20}$ molecules are removed from 98 mg of H_2SO_4 , then number of moles of H_2SO_4 left are:				
	A. 0.5 × 10-3mol. C. 9.95 × 10-3mol.		B. 0.1 × 10-3mol. D. 1.66 × 10-3mol.		8056206308 ANSWERS
Q72.	Which of the following	is used as standard for deter	rmination of atomic mass unit?		6308 ER:
	A. O16	B. C12	C. H1	D. 017	O,
Q73.	India's uranium supply	comes mainly from the Jadu	ıguda mines in:		1 Marks
	A. Bihar	B. Madhya Pradesh	C. Maharashtra	D. None of thes	e
Q74.	An alkaloid contains 17 present in one molecule		elecular mass is 162. The numb	er of nitrogen atoms	1 Marks
	A. 5	B. 4	C. 3	D. 2	
Q75.	Which is the lightest ele	ement in the universe?			1 Marks
	A. Helium	B. Hydrogen	C. Nitrogen	D. Silicon	
Q76.	Who performed the gol	d foil experiment?			1 Marks
	A. Thomson	B. Goldstein	C. Chadwick	D. Rutherford	
Q77.	A sample of H ₂ SO ₄ con	tains 3.2 kg of sulphur. The	weight (in g) of hydrogen pres	ent in the sample is:	1 Marks
	A. 100	В. 200	C. 50	D. 150	
Q78.	The percentage value of	of nitrogen in urea is about:			1 Marks

	A. 46	B. 85	C. 18	D. 28	
Q79.	During any chemical change, t is a statement according to:	the total mass of the prod	ucts is equal to the total mass of	reactants. This	1 Marks
	A. Law of conservation of mass C. Law of multiple proportion		B. Law of constant composition D. Law of reciprocal proportion		
Q80.	X g of Ag was dissolved in HN0 was precipitated. The value of		eated with excess of NaCl, when	2.87g of AgCl	1 Marks
	A. 1.08g.	B. 2.16g.	C. 2.70g.	D. 1.62g.	
Q81.	An organic compound containi is 73. Molecular formula of the	- .	carbon, 6.84% hydrogen and its	s vapour density	′ 1 Marks
	A. C3H5O2	B. C4H10O2	C. C6H10O4	D. C3H10O2	
Q82.	What is the mass percent of ca	arbon in carbon dioxide?			1 Marks
	A. 0.034%	B. 27.27%	C. 3.4%	D. 28.7%	
Q83.	800 g of a 40% solution by we composition of remaining solution	-	solute was precipitated. The perc	centage	1 Marks
	A. 31.4%	B. 20.0%	C. 23.0%	D. 24%	JOIN
Q84.	Sulphuric acid reacts with sodi $H_2SO_4 + 2NaOH \rightarrow Na_2SO_4 +$	•			JOIN MY P
	When 1L of 0.1M sulphuric aci the amount of sodium sulphate		act with 1L of 0.1M sodium hydro in the solution obtained is:	oxide solution,	PAPERS & NOT
	A. 0.1mol L-1	B. 7.10g	C. 0.025mol L-1	D. 3.55g	TON
Q85.	Addition of 6.65×10^4 and 8.9	95×10^3 , in terms of scients	ntific notation will be:		NOTES, WHATSAP
	A. 7.545 × 104	B. 75.45 × 103	C. 754.5 × 102	D. 75.45 × 100	QU MA
Q86.	The result reported in the follo $2.5 \times 1.25 = 3.125$ should be		nificant figures,		WITH
	A. 3.125	B. 3.1	C. 3.12	D. 3.10	8056206308 ANSWERS
Q87.	In chulhas, gaps are left between	een the logs:			2063 WE
	A. To decrease the ignition tempera C. To cut off the supply of air.	ture of the fuel.	B. To allow the air to enter and facilitate D. All of these.	fuel burning.	RS ®
Q88.	 88. For two statements are given-one labelled Assertion (A) and the other labelled Reason (R). Select the correct answer to these questions from the codes (a), (b), (c) and (d) as given below. Assertion: One atomic mass unit is defined as one twelfth of the mass of one carbon-12 atom. Reason: Carbon-12 isotope is the most abundant isotope of carbon and has been chosen as standard. A. Both A and R are true and R is the correct explanation of B. Both A and R are true but R is not the correct 		om. as standard.	1 Marks	
	A. C. A is true but R is false.	·	explanation of A. D. A is false and R is also false.		
Q89.	Which gas law relates the volu	me of a gas to the number	er of molecules of the gas?		1 Marks
	A. Gay-Lussac's Law	B. Avogadro's Law	C. Boyle's Law	D. Charle's Law	
Q90.	_	ons from the codes (a), (f methane gives 18 g of v		R). Select the	1 Marks
	A. Both A and R are true and R is the A.	e correct explanation of	B. Both A and R are true but R is not the explanation of A.	correct	0/47

B. 3 ions.

A. 6.023 × 1023 ions.

	C. 6.023 × 1020 ions.		D. 9 ions.		
Q104	The concentration of a expressed in which of		substance present in its give	en volume can be	1 Marks
	A. Mass percent or weight C. Molality.	per cent (w/ w%).	B. Mole fraction or molarity. D. All of the above.		
Q105	According to Indian an ultimately yield	· · ·	0 B.C. the continuous sub-d	ivision of matter would	1 Mark
	A. Atom	B. Electron	C. Proton	D. Neutron	
Q106	The mass number of s (Given: Atomic number)	sulfur atom is: er = 16 and number of neut	rons = 16)		1 Mark
	A. 18	B. 32	C. 24	D. 16	
Q107		de contains 0.540g of the mar formula of its oxide is:	netal. If the specific heat of t	the metal, M is 0.216 cal	1 Mark
	A. MO	B. M2O3	C. M2O4	D. M2O	
Q108	French chemist substances react by fo		cientific investigation of matt	er by describing that	JOIN
	A. Dalton		B. Rutherford		MY
	C. Antony van Leeuwenhoe	k	D. A. Lavoisier		PAID
Q109		_	3% of carbon, its empirical i	formula is:	
	A. CH	B. CH3	C. CH2	D. CH4	TES
Q110	correct answer to the Assertion: The molar m		on (A) and the other labelle (a), (b), (c) and (d) as give mol.	` *	ST GROUP V
	A. Both Assertion and Reas correct explanation of As C. Assertion is correct but F		B. Both Assertion and Reaso the correct explanation of D. Assertion is incorrect but		WITH AN
Q111	_		e ratio of naturally occurring opes existed, what would be	·	ANSWERS
	A. 35.5		В. 37.5		
	C. 36.6		D. None of the above		
Q112	· What is the mass of one ato	om of C-12 in grams?			1 Mark
	A. 1.992 × 10–23gm C. 1.892 × 10–23gm		B. 1.989 × 10−23gm D. 1.965 × 10−23gm		
Q113	. A solution is prepared	by adding 2g of substance	A to 1 g of water. The mass	percent of the solute is:	1 Mark
	A. 10	B. 20	C. 40	D. 25	
Q114	correct answer to the Assertion: Molar volume	-	on (A) and the other labelle (a), (b), (c) and (d) as give atm.	` '	1 Mark
	A. Both Assertion and Reas	on are correct and Reason is the	B. Both Assertion and Reaso	n are correct but Reason is not	

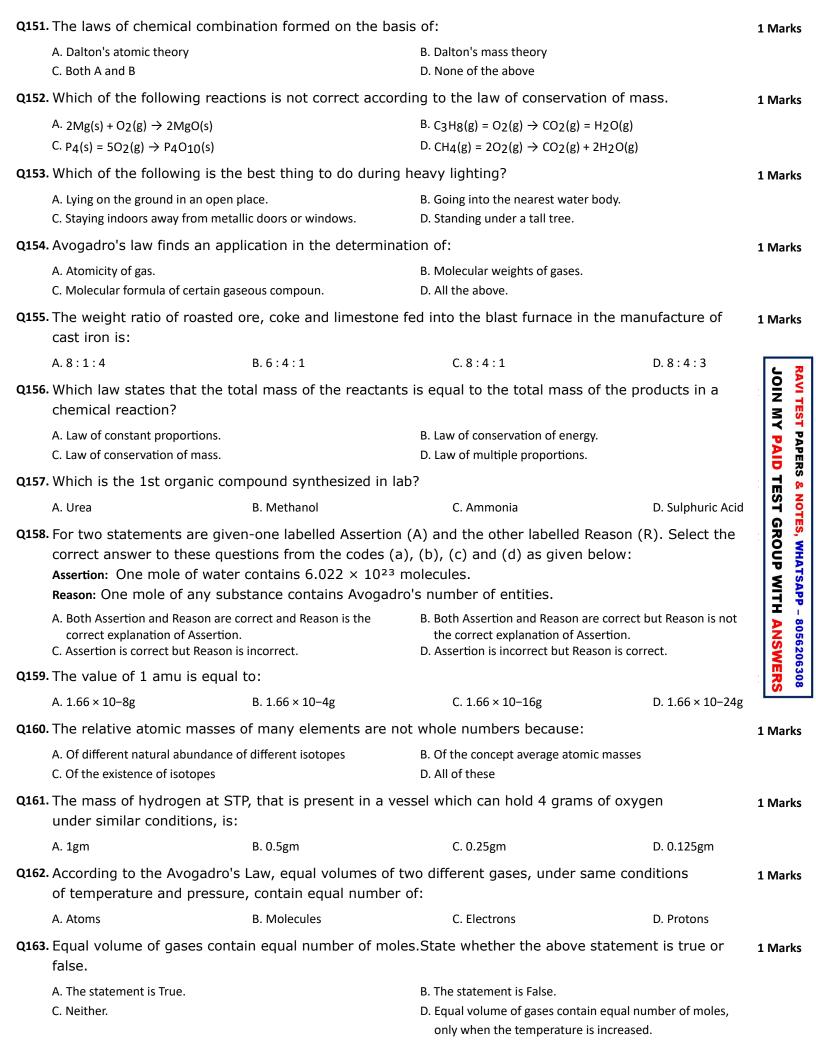
D. Assertion is incorrect but Reason is correct.

C. Assertion is correct but Reason is incorrect.

Q126	% composition requires	of the compound	:		1 Marks
	A. Molar mass C. Atmospheric pressure		B. Temperature D. Both a and b		
Q127	Gram molar volume for a ga	s is always considered at	conditions.		1 Marks
	A. NTP C. Variable temperature		B. STP D. None of these		
Q128	The empirical formula of a complex molecular formula is a:	ompound is CH ₂ . One mo	le of this compound has a mass	of 42g. Its	1 Marks
	A. C3H6	B. C2H8	C. CH2	D. C2H2	
Q129	A hydrocarbon was found to	contain 85.7% by mass	of carbon and 14.3% by mass o	f hydrogen. Molar	1 Marks
	mass of hydrocarbon is 56g	mot ⁻¹ . The formula for hy	drocarbon is		
	A. CH4	B. C2H4	C. C4H8	D. C5H10	
Q130	Determine the mass by mass	s percentage concentration	on of a 100g salt solution which	contains 20g salt.	1 Marks
	A. 30%	B. 20%	C. 80%	D. None of these	
Q131	Who is considered as the fou	inding father of chemistry	y?		L R
	A. Boyle	B. Aristotle	C. Sir Francis	D. John Mayow	Ž
Q132	What is the percentage by w	eight of sulphuric acid if	13g of H ₂ SO ₄ is dissolved to ma	ake 78g of	JOIN MY PAID
	solution?				APE
	A. 13.2%	B. 14.28%	C. 20%	D. 16.6%	O TE
Q133	A device for measuring temp	peratures at a distance is:	1		TEST
	A. Gas thermometer. C. Radiation pyrometer.		B. Mercury thermometer. D. Maximum-minimum thermometer.	:	GROU
Q134. For two statements are given-one labelled Assertion (A) and the other labelled Reason (R). Select the correct answer to these questions from the codes (a), (b), (c) and (d) as given below: Assertion: In a balanced chemical equation, the total mass of products is greater than the total mass of reactants. Reason: Mass is not conserved in a chemical reaction.					GROUP WITH ANSWERS
	A. Both Assertion and Reason are correct and Reason is the correct explanation of Assertion. C. Assertion is correct but Reason is incorrect.		B. Both Assertion and Reason are correct but Reason is not the correct explanation of Assertion.D. Assertion is incorrect but Reason is correct.		ERS
Q135	5. For two statements are given-one labelled Assertion (A) and the other labelled Reason (R). Select the correct answer to these questions from the codes (a), (b), (c) and (d) as given below. Assertion: One atomic mass unit is defined as one twelfth of the mass of one carbon - 12 atom. Reason: Carbon-12 isotope is the most abundant isotope of carbon and has been chosen as standard.				1 Marks
	A. Both A and R are true and R is the correct explanation of A.C. A is true but R is false.		B. Both A and R are true but R is not t of A.D. A is false and R is also false.	ne correct explanation	
Q136	Which one of the following se	cientist's proposed the la	w of conservation of mass?		1 Marks
	A. J.J. Thomson	B. John Dalton	C. Rutherford	D. Berzelius	
Q137	An organic compound on and chlorine. What will be the en	•	in 10.06% carbon, 0.84% hydro bstance?	ogen and 89.10%	1 Marks
	A. CH2Cl2	B. CHCl3	C. CCI4	D. CH3Cl	
Q138	Which of the following stater	ments about a compound	is incorrect?		1 Marks

	A. A molecule of a compound	has atoms of different	B. A compound cannot be separated			
	elements. C. A compound retains the physical desired in the physical desired	ysical properties of its	elements by physical methods of D. The ratio of atoms of different elements	•		
	constituent elements.		fixed.			
	Q139. Which law stated that 'n		•		1 Marks	
	A. Law of multiple proportion. C. Law of constant compositio		B. Law of conservation of energy. D. Law of conservation of mass.			
		resent in one mole of an ele ins the greatest number of	ement is equal to Avogadro numl atoms?	ber. Which of the	1 Marks	
	A. 4g He	B. 46g Na	C. 0.40g Ca	D. 12g He		
	Q141. Mass number is denoted	l by:			1 Marks	
	A. D	B. S	C. A	D. Z		
	Q142. For two statements are given-one labelled Assertion (A) and the other labelled Reason (R). Select the correct answer to these questions from the codes (a), (b), (c) and (d) as given below. Assertion: Molarity of a solution represents its concentration. Reason: Molarity is the number of moles of solute per litre of solution.					
	A. Both A and R are true and R A. C. A is true but R is false.	R is the correct explanation of	B. Both A and R are true but R is not of A.D. A is false and R is also false.	t the correct explanation	RAVI TEST PAPERS	
	Q143. Elements X, Y and Z hav	ve atomic numbers 5, 9 and	d 11 respectively. Which one forn	ns an anion?	PAPER	
	A. X		В. У			
	C. Z		D. Both B and C		TEST	
Q144. For two statements are given-one labelled Assertion (A) and the other labelled Reason (R). Select th correct answer to these questions from the codes (a), (b), (c) and (d) as given below: Assertion: The number of molecules in 2 moles of a substance is 1.204 × 10 ²⁴ . Reason: One mole contains 6.022 × 10 ²³ molecules.					NOTES, WHATSAPP	
	A. Both Assertion and Reason correct explanation of Assertion is correct but Rea	rtion.	B. Both Assertion and Reason are contract explanation of AssertionD. Assertion is incorrect but Reason	ion.	=	
	Q145. A hydrocarbon was foun empirical formula of the	•	of carbon and 25% by mass of h	nydrogen. What is	8056206308 ANSWERS	
	A. C2H4	B. C2H6	C. CH4	D. C6H6		
	•	ration with different buretto significant figures in the av	es and finds titre values of 25.2n verage titre value is:	nL, 25.25mL and	1 Marks	
	A. 1	B. 2	C. 3	D. 4		
	Q147. Under the same condition	ons, two gases have the sai	me number of molecules. They m	nust:	1 Marks	
	A. Be noble gases. C. Have a volume of 22.4 dm3	each.	B. Have equal volumes. D. Have an equal number of atoms.			
	Q148. What will be the molality	y of the solution containing	18.25g of HCl gas in 500g of wa	iter?	1 Marks	
	A. 0.1m	B. 1M	C. 0.5m	D. 1m		
	Q149. Which law was given by	Antoine L. Lavoisier?			1 Marks	
	A. Laws of multiple proportion C. Both A and B	1	B. Law of conservation of mass D. None of the above			
	Q150. If 500mL of a 5M solution	on is diluted to 1500mL, wh	nat will be the molarity of the sol	ution obtained?	1 Marks	
	A. 1.5M	B. 1.66M	C. 0.017M	D. 1.59M		
					4.0 * * * =	

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Q164	164. For two statements are given-one labelled Assertion (A) and the other labelled Reason (R). Select the correct answer to these questions from the codes (a), (b), (c) and (d) as given below: Assertion: Percentage composition is used to determine the empirical formula of a compound. Reason: Percentage composition gives the relative amount of each element in a compound.				
	A. Both Assertion and Reason as correct explanation of Assert C. Assertion is correct but Reason	ion.	B. Both Assertion and Reason are co the correct explanation of Asserti D. Assertion is incorrect but Reason	ion.	
Q165	. When an inflated tyre bur	sts, the air escaping out v	will:		1 Marks
	A. Get heated up C. Not undergo any change in its	s temperature	B. Be cooled D. Be liquified		
Q166	· What will be the ratio of 0 35.5 ?	Cl ³⁵ and Cl ³⁷ respectively i	n ordinary chlorine if the atomic	weight of chlorine is	1 Marks
	A. 1:3	B. 3:1	C. 1:2	D. 2:1	
Q167	correct answer to these q	uestions from the codes (nical equation satisfies the ated or destroyed in a che	n (A) and the other labelled Reas a), (b), (c) and (d) as given belo Law of Conservation of Mass. mical reaction. B. Both Assertion and Reason are co	ow:	1 Marks
	correct explanation of Assertion. C. Assertion is correct but Reason is incorrect.		the correct explanation of Asserti D. Assertion is incorrect but Reason	ion.	JOIN MY PAID
Q168	. What will be the molality	of the solution made by d	issolving 10g of NaOH in 100g of	f water?	
	A. 2.5m.	B. 5m.	C. 10m.	D. 1.25m.	TEST
Q169	. Modern atomic mass scal	e is based on the mass of	:		
	A. H -1	B. C -12	C. C –14	D. C -16	RO ₹
Q170	. When magnesium is burn	t in air, the weight of mag	nesium:		I P
	A. Increases C. Remains same		B. Decreases D. Depends on the atmosphere		GROUP WITH
Q171	. Uncertainty Principle was	given by:			8056206308 ANSWERS
	A. Heisenberg	B. Thomson	C. Rutherford	D. Bohr	WEI
Q172	.This is the branch of chen compounds:	nistry deals with chemistr	y of elements other than carbon	and of their	S S
	A. Physical chemistry C. Organic chemistry		B. Inorganic chemistry D. Analytical chemistry		
Q173	•		ter of crystallisation. If the law o to produce 20g of the zinc sulph		1 Marks
	A. 45.3g.	B. 4.53g.	C. 0.453g.	D. 453g.	
Q174	. What is the atomic mass	(u) of chlorine?			1 Marks
	A. 34	B. 35.5	C. 33	D. 35	
Q175	correct answer to these q Assertion: The balancing of	uestions from the codes (n (A) and the other labelled Reas a), (b), (c) and (d) as given belo sed on law of conservation of ma ss of products.	ow.	1 Marks
	A. Both A and R are true and R iA.C. A is true but R is false.	s the correct explanation of	B. Both A and R are true but R is not of A.D. A is false and R is also false.	t the correct explanation	

Q176. For two statements are given-one labelled Assertion (A) and the other labelled Reason (R). Select the correct answer to these questions from the codes (a), (b), (c) and (d) as given below. Assertion: Equivalent weight of Cu in CuO is 31.8 and in Cu O ₂ is 63.6.					1 Marks
	Reason: Equivalent weight of an	element = $\frac{\text{Atomic weight of the } \epsilon}{\text{Valency of the } \epsilon}$			
	A. Both A and R are true and R is t	•		is not the correct explanation	
	C. A is true but R is false.		D. A is false and R is also false.		
Q177.	The National Physical Labo	ratory is situated at:			1 Marks
	A. Kolkata	B. New Delhi	C. Bombay	D. None of these	
Q178.	18 carat gold contains ?				1 Marks
	A. 18% gold	B. 4% gold	C. 75% gold	D. 60% gold	
Q179.	Which of the following equa	ations is unbalanced?			1 Marks
	A. 4Fe (s) + $3O2(g) \rightarrow 2Fe2O3(s)$. C. P4(s) + $O2(g) \rightarrow P4O10(s)$.		B. $2Mg(s) + O2(g) \rightarrow 2MgO(s)$. D. $CH4(g) + 2O2(g) \rightarrow CO2(g)$		
Q180.	Insulin contains 3.4% sulp	hur. The minimum moled	cular weight of insulin is:		1 -
	A. 941.176	B. 944	C. 945.27	D. None	JO
Q181.	How many number of mole	cules and atoms respec	tively are present in 2.8L of	a diatomic gas at STP?	Z
	A. 6.023 × 1023, 7.5 × 1023 C. 7.5 × 1022, 15 × 1022		B. 6.023 × 1023, 15 × 1022 D. 15 × 1022, 7.5 × 1023		JOIN MY PAID
Q182.	The mass of one mole a ch chloride?	loride formed by metal '	X' is 111.0g. Which one cou	ld be formula of	TEST GROUP WITI
	A. XCI	B. XCI2	C. XCI3	D. XCI4	GR GR
Q183.	Definition of chemistry is:				GROUP WITH
	A. Physical science that studies the composition, structure, properties and change of matter. C. Science that helps in studying the galaxy.		B. Biological science that helps to study the basic functioning of nervous system.D. Physical science that studies the biotic and abiotic aspects of environment.		
Q184.			on (A) and the other labelled (a), (b), (c) and (d) as given	` ,	8056206308 ANSWERS
	Assertion: A number 138.42	can be written as 1.384	2×10^{2} in scientific notation	n.	
	Reason: In scientific notation number between 1.00 a		expressed in the form of N exponent.	. 10 ⁿ , where N is a	
	A. Both A and R are true and R is a A.	the correct explanation of	of A.	t is not the correct explanation	
	C. A is true but R is false.		D. A is false and R is also false.		
	Law of conservation of mas	ss is also known as:			1 Marks
	A. Law of indestructibility.C. Law of conservation of energy.		B. Law of mass action.D. None of the above.		
Q186.	Which of the following repr	esents largest number o	of particles.		1 Marks
	A. Atoms in mole of CH4 C. Atoms in 0.5 mole of CO2		B. Atoms in 0.5 mol of SO3 D. Atoms in 1 mol of CO.		
Q187.	The weight of iron which w be (Atomic weight of Fe =		oxide (Fe ₃ O ₄) by the action	of 18g of steam on it will	1 Marks

C. 42g.

D. 21g.

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A. 168g.

B. 84g.

Q188	 A sample of ammonia ha 	is a mass of 51.1g. How m	any molecules are in this sar	nple?	1 Marks
	A. 1.8×1023 molecules B. 3.6×1023 molecules C. 9.1×1023 molecules D. 1.8×1024 molecules				
Q189	189. Mass can neither be created nor destroyed. This is in agreement with which law of chemical combination?				1 Marks
	A. Law of definite proportion. C. Law of conservation of mass		B. Law of multiple proportion. D. Law of conservation of mom	entum.	
Q190	.The weights of two elem-	ents which combines with	one another are in the ratio o	of their:	1 Marks
	A. Atomic weight. C. Quivalent weight.		B. Molecular weight. D. None of the above.		
Q191	Q191. Which of the following statements is/ are correct regarding significant figures?				1 Marks
	A. All non-zero digits are significant.		B. Significant figures are meaningful digits which are known with certainty.		
	C. Zero between two non-zero		D. All of the above.		
Q192		20 drops then number of i	molecules in a drop of water	is:	1 Manuary 7
	A. 6.023 × 1023 molecules.C. 1.62 × 1021 molecules.		B. 1.376 × 1026 molecules. D. 4.346 × 1020 molecules.		JOIN MY
Q193	193. A measured temperature on Fahrenheit scale is 200°F. What will this reading be on Celsius scale				
	A. 40°C	B. 94°C	C. 93.3°C	D. 30°C	PAPERS
Q194	. What is mass silicon in 1	00g of sodium silicate, Na ₂	₂ SiO ₃ ?		80
	A. 16.7%	B. 23.0%	C. 28.0%	D. 82.0%	EST GR
Q195	. Which of the following is	the best example to demo	nstrate the law of conservati	on of mass?	
	A. 12gm of carbon combines with 32gm of oxygen to form 44gm of CO2.C. The weight of a piece of platinum is the same before and after heating in air.		B. When 72gm of carbon is heated in a vacuum and no change in its mass takes place.D. None of these.		WITH
Q196	\cdot 4.6 \times 10 ²² atoms of an ϵ	element weight 13.8g. Wha	at is the atomic mass of the e	element?	8056206308 ANSWERS
	A. 290u	B. 180.6u	C. 34.4u	D. 104u	VER
Q197	. How many grams of cond The concentrated acid is		on should be used to prepare	250mL of 2.0M HNO ₃ ?	T IAIQI K2
	A. 45.0g conc. HNO3 C. 70.0g conc. HNO3		B. 90.0g conc. HNO3 D. 54.0g conc. HNO3		
Q198	·The number of Cl ⁻ and C	a ²⁺ ions in 222g of CaCl ₂ i	s:		1 Marks
	A. 4NA, 2NA	B. 2NA, 4NA	C. 1NA, 2NA	D. 2NA, 1NA	
Q199	. 16g of oxygen has same	number of molecules as ir	1:		1 Marks
	A. 16g of CO	B. 28g of N2	C. 14g of N2	D. 1.0g of H2	
Q200	One mole of any substance contains 6.022×10^{23} atoms/ molecules. Number of molecules of present in 100mL of 0.02M H ₂ SO ₄ solution is				1 Marks
	A. 12.044 × 1020 molecules.C. 1 × 1023 molecules.		B. 6.022 × 1023 molecules.D. 12.044 × 1023 molecules.		