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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 | NIO |
| | A. 0.15M | B. 0.18M | C. 0.12M | D. 0.30M | - |
| Q16. | questions from the codes (a), (Assertion: The empirical mass Reason: The empirical formula | one labelled Assertion (A) and the ob), (c) and (d) as given below. of ethene is half of its molecular materials represents the simplest whole number is the correct explanation of | 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 | imber 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? | erimentally establishing laws B. Antoine Lavoisier. D. None of the above. | s of chemical | NSWERS |
| Q19. | Photo-electric cell is not used i | in: | | | 1 Mark |
| | A. Television. C. Reproduction of sound in | | B. Photography. D. Automatic switching of stre | | |
| Q20. | Which of the following pi | 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 all | owed in or out, it's | 1 Marl |

C. Temperature

C. 100%

D. 75%

A. 25%

A. Quality

B. Quantity

B. 50%

D. Shape

| 9 | 1 | Maı | rks |
|-----|---|----------------------|----------------------------|
| nt. | 1 | Maı | ·ks |
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| | | Mai | |

| 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 power is 20g, find the % composite (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. | | |
| Q27. | What is the mass of the solv | vent present in 200g of | 25% (w/ W) calcium hydr | oxide solution? | 1 Marks | |
| | A. 150g | B. 125g | C. 175g | D. 100g | £ 70 | |
| Q28. | Which law states that in a chemical reaction, the total nather 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 proport | = - | Y PAID | |
| | of mass which are given bel correct option out of the fol | _ | | | EST GROUP WIT | |
| | Student | | Readings | | WIT | |
| | | | (i) | (ii) | ∃ 🤻 | |
| | A | | 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 308 | |
| | 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 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 b explanation of A. D. A is false and R is also fa | | | |
| 031 | C. A is true but R is false. What is the atomic mass (u |) of calcium? | D. A is laise allu R is also le | aise. | 1 Marks | |
| ٠ | A. 10 | B. 20 | C. 30 | D. 40 | T INIGLES | |
| 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. | rmula represents the simplest | whole number ratio of various | atoms present in a | |
|-------------|---|--|--|-----------------------|--|
| | Α. | nd R is the correct explanation of | B. Both A and R are true but R is no explanation of A. | ot the correct | |
| 022 | C. A is true but R is false. | a and reference of the contaction of October Man | D. A is false and R is also false. | | |
| Q33. | | a solution, which contains 5.85g of Na | | D 2mal 1 1 | 1 Marks |
| | A. 4mol L–1 | B. 20mol L–1 | C. 0.2mol L–1 | D. 2mol L–1 | |
| Q34. | | | a high temperature lubricant. I | $f MS_2$ is 40.06% by | 1 Marks |
| | mass of sulphur, metal | | 0.40 | D. 06 | |
| | A. 160amu | B. 64amu | C. 40amu | D. 96amu | |
| Q35. | One a.m.u is defined as A. $\frac{1}{16}$ mass of one oxyge C. $\frac{1}{12}$ mass of one carbo | en atom. | B. $\frac{1}{14}$ th mass of one atom of nitrogonal 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? | | | 1 Marks | |
| | A. Law of conservation of r C. Law of multiple proporti | | B. Law of definite proportions. D. Avogadro law. | | IN MY |
| Q37. | How many moles are p | resent in 6.023 \times 10 ²² molecu | lles of CO ₂ ? | | PAPE |
| | A. 0.2 | B. 0.01 | C. 0.1 | D. 0.02 | D IRS |
| 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? | | | | GR(|
| | A. 5M | B. 50M | C. 0.005M | D. 0.5M | |
| Q39. | correct answer to these Assertion : The atomic ma | | | | RAVITEST PAPERS & NOTES, WHATSAPP - 8056206308 JOIN MY PAID TEST 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 no the correct explanation of Assertion.D. Assertion is incorrect but Reason is correct. | | 056206308 NSWERS |
| Q40. | A gas is found to have | the formula (CO) _x . Its vapour | density is 70. The value of x wi | II 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 ga | e questions from the codes (a) as is inversely proportional to t | (A) and the other labelled Reason, (b), (c) and (d) as given below the number of moles of gas. products is in agreement with | w. | 1 Marks |
| | 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 not explanation of A.D. A is false and R is also false. | ot the correct | |
| Q43. | Which statement is link contain the same numb | | tical containers filled with differ | 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. | | | | 1 Marks |
|------|---|--|--|--|---------------------|
| | 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 lead the reactants (iron or continuous) | be increased by taking any one of oxygen) in excess. | D. Amount of Fe2O3 produced of any one of the reactants excess. | d will decrease if the amount (iron or oxygen) is taken in | 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 | 8056206308 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 or 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 | elecular 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 exa | 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 | | B. Both Assertion and Reason at 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? | | | £ 7 |
| | 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 M |
| Q70. | Arrange the following in a. One atom of oxyge b. One atom of nitrog c. 1×10^{-10} mole of d. 1×10^{-10} mole of | en. gen. oxygen. | ss (Atomic mass of O = 16, Cu | = 63 and N = 14). | PAVI TEST PAPERS & NOTES, WHATSAPP JOIN MY PAID TEST GROUP WITI |
| | A. < < < V. C. < < V < . | | B. I < II < III < IV. D. IV < II < III < I. | | GROUP WITH |
| 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 determination of atomic mass unit? | | | | |
| | A. O16 | B. C12 | C. H1 | D. 017 | 0, |
| Q73. | India's uranium supply | comes mainly from the Jadu | uguda 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 | | plecular mass is 162. The numb | er of nitrogen atoms | 1 Marks |
| | A. 5 | B. 4 | C. 3 | D. 2 | |
| Q75. | Which is the lightest el | 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 | B. 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: | he 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 | 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 | entage | 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 scien | 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 | 8056 ANS |
| Q87. | In chulhas, gaps are left between | een the logs: | | | 8056206308 ANSWERS |
| | 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 fuel burning. D. All of these. | | RS 8 |
| Q88. | 28. 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. es 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), (l f methane gives 18 g of w | | 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//= |

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 | | ubstance present in its giver | n volume can be | 1 Mark |
| | A. Mass percent or weight p C. Molality. | er cent (w/ w%). | B. Mole fraction or molarity.D. All of the above. | | |
| Q105 | According to Indian an ultimately yield | · · | B.C. the continuous sub-div | vision of matter would | 1 Marks |
| | A. Atom | B. Electron | C. Proton | D. Neutron | |
| Q106 | The mass number of so (Given: Atomic numbe | ulfur atom is: r = 16 and number of neutr | ons = 16) | | 1 Marks |
| | A. 18 | B. 32 | C. 24 | D. 16 | |
| Q107 | | le contains 0.540g of the more formula of its oxide is: | etal. If the specific heat of th | ne metal, M is 0.216 cal | 1 Marks |
| | A. MO | B. M2O3 | C. M2O4 | D. M2O | |
| Q108 | French chemist la substances react by fo | | entific investigation of matte | er by describing that | NIOF |
| | A. Dalton | | B. Rutherford | | MY |
| | C. Antony van Leeuwenhoek | | D. A. Lavoisier | | P |
| Q109 | An organic compound | containing C and H has 92.3 | 8% of carbon, its empirical fo | ormula is: | PAID |
| | A. CH | B. CH3 | C. CH2 | D. CH4 | TES |
| Q110 | correct answer to these | e questions from the codes ass of oxygen (O_2) is 16 g/n | on (A) and the other labelled (a), (b), (c) and (d) as givennol. | • • | ST GROUP V |
| | A. Both Assertion and Reaso correct explanation of Ass C. Assertion is correct but Re | | B. Both Assertion and Reason the correct explanation of a D. Assertion is incorrect but R | Assertion. | WITH AN |
| Q111 | _ | | ratio of naturally occurring pes existed, what would be | • | ANSWERS |
| | A. 35.5 | | B. 37.5 | | |
| | C. 36.6 | | D. None of the above | | |
| Q112 | • What is the mass of one ato | m of C−12 in grams? | | | 1 Marks |
| | 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 | λ to 1 g of water. The mass $\mathfrak p$ | percent of the solute is: | 1 Marks |
| | A. 10 | B. 20 | C. 40 | D. 25 | |
| Q114 | correct answer to these Assertion: Molar volume | - | on (A) and the other labelled (a), (b), (c) and (d) as giver atm. | ` ' | 1 Marks |
| | A. Both Assertion and Reaso | n are correct and Reason is the | B. Both Assertion and Reason | are correct but Reason is not | |

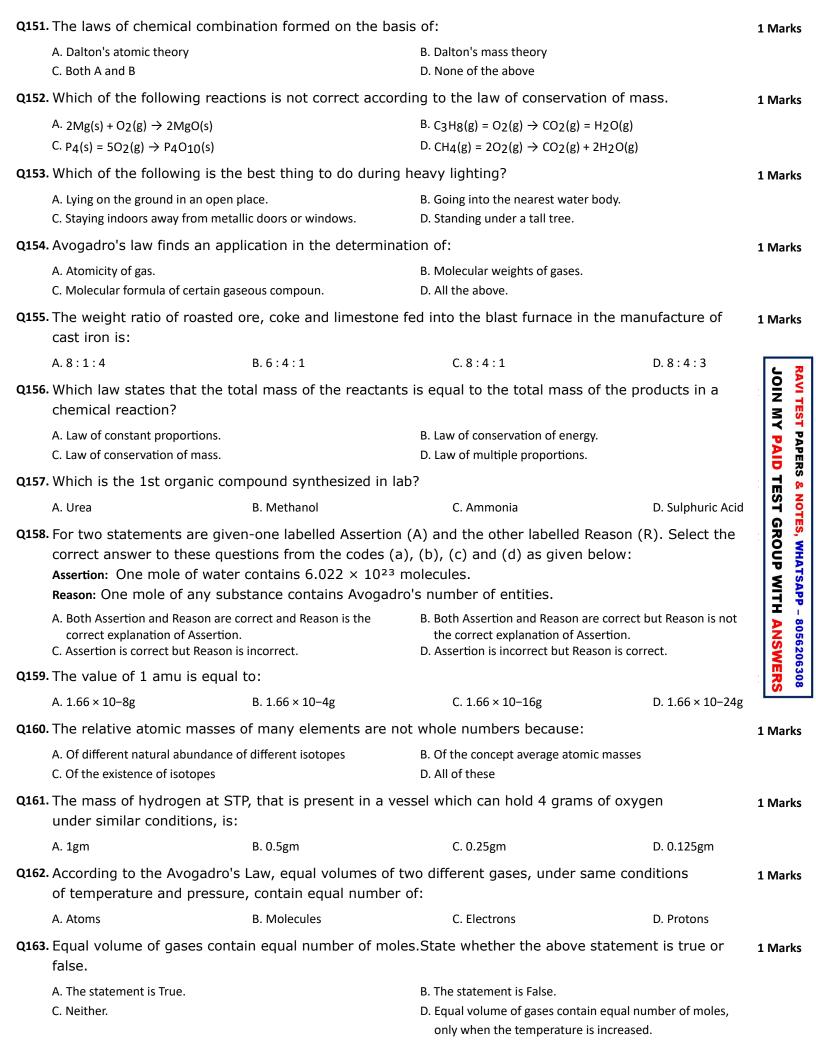
D. Assertion is incorrect but Reason is correct.

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 comolecular 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 of | f hydrogen. Molar | 1 Marks |
| | mass of hydrocarbon is 56g | mot ⁻¹ . The formula for hy | ydrocarbon 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 | ke 78g of | JOIN MY PAID |
| | solution? | | | | APE |
| | A. 13.2% | B. 14.28% | C. 20% | D. 16.6% | TE & |
| Q133 | A device for measuring temp | peratures at a distance is | : | | TEST |
| | A. Gas thermometer.C. Radiation pyrometer. | | B. Mercury thermometer. D. Maximum-minimum thermometer. | | GROU |
| Q134 | correct answer to these ques | stions from the codes (a) ical equation, the total m | (A) and the other labelled Reaso , (b), (c) and (d) as given below lass of products is greater than t | ': | GROUP WITH ANSWERS |
| | A. Both Assertion and Reason are cocorrect explanation of Assertion.C. Assertion is correct but Reason is | | B. Both Assertion and Reason are correct the correct explanation of AssertionD. Assertion is incorrect but Reason is |). | ERS |
| Q135. For two statements are given-one labelled Assertion (A) and the other labelled Reason (R) 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 atomic Reason: Carbon-12 isotope is the most abundant isotope of carbon and has been chosen as | | 12 atom. en as standard. | 1 Marks | | |
| | A. Both A and R are true and R is the A.C. A is true but R is false. | e correct explanation of | B. Both A and R are true but R is not the 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? | gen 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. elements by physical methods of C. A compound retains the physical properties of its D. The ratio of atoms of different elements by physical methods of D. The ratio of atoms of different elements by physical methods of D. The ratio of atoms of different elements by physical methods of D. The ratio of atoms of different elements by physical methods of D. The ratio of atoms of different elements by physical methods of D. The ratio of atoms of different elements by physical methods of D. The ratio of atoms of different elements by physical methods of D. The ratio of atoms of different elements by physical methods of D. The ratio of atoms of different elements by physical methods of D. The ratio of atoms of D. The ratio of atoms of D. The ratio of atoms of D. The ratio of D. The ra | • | |
| constituent elements. fixed. | | |
| Q139. Which law stated that 'matter is neither created nor destroyed'? | | 1 Marks |
| A. Law of multiple proportion. B. Law of conservation of energy. C. Law of constant composition. D. Law of conservation of mass. | | |
| Q140. The number of atoms present in one mole of an element is equal to Avogadro number following element contains the greatest number of atoms? | per. Which of the | 1 Marks |
| A. 4g He B. 46g Na C. 0.40g Ca | D. 12g He | |
| Q141. Mass number is denoted 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 Reas correct answer to these questions from the codes (a), (b), (c) and (d) as given below the codes (a) and (b) as given below the codes (b), (c) and (d) as given below the codes (d), (e), (e), (f), (f), (f), (f), (f), (f), (f), (f | ow. | 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 of A. D. A is false and R is also false. | t the correct explanation | RAVI TEST PAPERS |
| Q143. Elements X, Y and Z have atomic numbers 5, 9 and 11 respectively. Which one form | ns an anion? | PAPER |
| A. X B. Y | no an amon. | ERS |
| C. Z D. Both B and C | | TEST |
| Q144. For two statements are given-one labelled Assertion (A) and the other labelled Reas correct answer to these questions from the codes (a), (b), (c) and (d) as given below the codes are correct answer to these questions from the codes (a), (b), (c) and (d) as given below the codes. 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. A. Both Assertion and Reason are correct and Reason is the B. Both Assertion and Reason are correct. | ow: | GROUP WIT |
| correct explanation of Assertion. C. Assertion is correct but Reason is incorrect. D. Assertion is incorrect but Reason. | ion. | - 80562 |
| Q145. A hydrocarbon was found to contain 75% by mass of carbon and 25% by mass of h empirical formula of the compound? | ydrogen. What is | 8056206308 ANSWERS |
| A. C2H4 B. C2H6 C. CH4 | D. C6H6 | |
| Q146. A student performs a titration with different burettes and finds titre values of 25.2m 25.0mL. The number of significant figures in the average titre value is: | nL, 25.25mL and | 1 Marks |
| A. 1 B. 2 C. 3 | D. 4 | |
| Q147. Under the same conditions, two gases have the same number of molecules. They m | nust: | 1 Marks |
| A. Be noble gases. B. Have equal volumes. C. Have a volume of 22.4 dm3 each. D. Have an equal number of atoms. | | |
| Q148. What will be the molality 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 B. Law of conservation of mass D. None of the above | | - |
| | | |
| Q150. If 500mL of a 5M solution is diluted to 1500mL, what will be the molarity of the solu | ution obtained? | 1 Marks |

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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 a correct explanation of Assert. C. Assertion is correct but Reason. | tion. | B. Both Assertion and Reason are co the correct explanation of Asserti D. Assertion is incorrect but Reason | ion. | |
| Q165 | . When an inflated tyre bu | rsts, the air escaping out v | will: | | 1 Marks |
| | A. Get heated up C. Not undergo any change in i | ts temperature | B. Be cooled D. Be liquified | | |
| Q166 | What will be the ratio of 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 of Assertion: A balanced cher Reason: Atoms can be creed. Both Assertion and Reason an | questions from the codes (mical equation satisfies the ated or destroyed in a che are correct and Reason is the | B. Both Assertion and Reason are co | ow: | JOIN MY PAID |
| | correct explanation of Asser C. Assertion is correct but Reas | | the correct explanation of Asserti D. Assertion is incorrect but Reason | | AY PA |
| Q168 | . What will be the molality | of the solution made by d | issolving 10g of NaOH in 100g o | f water? | ERS |
| | A. 2.5m. | B. 5m. | C. 10m. | D. 1.25m. | TEST |
| Q169 | . Modern atomic mass sca | le is based on the mass of | : | | |
| | A. H -1 | B. C −12 | C. C -14 | D. C −16 | RO ₹ |
| Q170 | . When magnesium is bur | nt in air, the weight of mag | nesium: | | JP V |
| | A. Increases C. Remains same | | B. Decreases D. Depends on the atmosphere | | GROUP WITH A |
| Q171 | . Uncertainty Principle was | s given by: | | | ANSWERS |
| | A. Heisenberg | B. Thomson | C. Rutherford | D. Bohr | WEF |
| Q172 | This is the branch of che compounds: | mistry 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 of Assertion: The balancing of | questions 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 RA.C. A is true but R is false. | 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 | |

| Q176. | 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 CuO ₂ is 63.6. | | | | |
|-------|---|---|--|---|--|
| | 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 | • | B. Both A and R are true but R of A. | 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. $CH4(g) + 2O2(g) \rightarrow CO2(g) + CO2(g) \rightarrow CO2(g) + CO2(g) \rightarrow CO2(g) + CO2$ | | |
| 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 | |
| | A. XCI | B. XCI2 | C. XCI3 | D. XCI4 | GR TES, |
| Q183. | Definition of chemistry is: | | | | OC ¥ |
| | A. Physical science that studies the properties and change of matter. C. Science that helps in studying the study | er. | of nervous system. | s to study the basic functioning s the biotic and abiotic aspects | & NOTES, WHATSAPP - 8056 TEST GROUP WITH ANS |
| Q184. | | | n (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 | B. Both A and R are true but R of A. | · | |
| | 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_3O_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 has | s a mass of 51.1g. How m | any molecules are in this san | 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 elements | 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 Mante |
| | 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 sca | | | | |
| | A. 40°C | B. 94°C | C. 93.3°C | D. 30°C | PAPERS |
| Q194 | . What is mass silicon in 10 | 00g of sodium silicate, Na ₂ | ₂ SiO ₃ ? | | ₩ 20 |
| | A. 16.7% | B. 23.0% | C. 28.0% | D. 82.0% | & NOTES, 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 e | lement 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 CI ⁻ 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 F 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. | | |