1. What happens when dilute hydrochloric acid is added to iron filling?	
 Hydrogen gas and iron chloride are produced Chlorine gas and iron hydroxide are produced No reaction takes place Iron salt and water are produced The solution of FeO + Chlorine turns due to formation of iron (II) chloride (FeCl2). 	2
O Brown O Yellow O Light Blue Light green	2
3. A student added dilute HCL to a test tube containing zinc granules and made following observations:	
 The zinc surface become dull and black A gas evolved which burnt with a pop sound. The solution remains colourless The solution becomes green in colour. Which of the following reactions will produce effervescence due to gas formation? 	2
 Copper (Cu) reacting with dilute hydrochloric acid (HCL) Zinc (Zn) reacting with dilute sulfuric acid (H2SO4) Iron (Fe) reacting with copper sulphate (CuSO4) solution Sodium chloride (Nacl) disolving in water Which of the following reactions will produce effervescence due to carbon dioxide gas (CO2) ? 	2
 Mg reacting with HCL Na2Co3 reacting with H2SO4 Iron (Fe) reacting with hydrochloric acid (HCL) Copper (Cu) reacting with dilute nitric acid (HNO3) 	2
 6. The reaction of Hydrogen (H2) gas with Oxygen gas to form water is an example of Combination reaction Redox reaction Exothermic reaction All of these reaction 	2
7. The blue flame in the below image represents the burning of which metal?	2
○ Iron Copper Sodium All metal burn to give a blue flame	_
8. The yellow flame is observed on burning which metal ? ○ Copper ○ Iron ○ Potassium ⑥ Sodium	2

9. The purple flame is observed on burning which metal?	
	2
10. In the context of redox reaction the removal of hydrogen from a	substance is known as
 Oxidation O Dehydration O Dehydrogenation O Reduction 	2
11. In the context of redox reaction the removal of oxygen from a su	bstance is known as
 — Reduction ○ Dehydration ○ Dehydrogenation ○ Oxidation 	2
12. Dissolving sugar is an example of	_
	hese 2
13. $CuSO4 + Zn -> Cu + ZnSO4$ reaction is an example of a:	-
 Double displacement reaction Displacement reaction Combination reaction Decomposition reaction 	2
14. What happens when dilute hydrochloric acid is added to Zn Gran	
 Zinc salt and water are produced No reactions takes place Hyrdogen gas and Zinc chloride are produced Chlorine gas and Zinc hydroxide are produced Translate the following statements into chemical equation and the Barium chloride reacts with aluminium sulphate to give aluminium 	
aluminium chloride and a precipitate of barium sulphate. O BaCl₂ + Al₂(SO₄)₃ → AlCl₃ + BaSO₄ ■ 3BaCl₂ + Al₂(SO₄)₃ → 2AlCl₃ + 3BaSO₄ O 3BaCl₂ + 2Al₂(SO₄)₃ → 3AlCl₃ + 4BaSO₄ O None of above	2
16. Identify the type of reaction in each case a. Zinc Carbonate (s) + Carbon dioxide (g) b. Hydrogen (g) + Chlorine (g) \rightarrow Hydrogen C	hloride (g)
 Thermal Decomposition , Combination reaction Decomposition, Redox Reaction + Combination reaction Displacement , Combination reaction None of Above The balancing equations is in accordance with of chemical : 	2
 Law of Combining Volumes Law of Constant Proportions Law of Conservation of mass Both B and C 	2

 Exothermic reaction Endothermic reaction Reduction reaction Combination reaction A solution of a substance 'X' is used for white washing. Name the substance 'X' and write its chemical formula. 	2
 Lime Stone, CaCO3 Lime, CaCO3 Calcium Oxide, CaO Calcium Carbonate, CaCO3 Write the balanced reaction of Calcium Oxide with water and state what type of 	2
reaction is this. O CaO + H2O → CaOH + H2, displacement © CaO + H2O → Ca(OH), combination reaction O CaO + H2O → Ca(OH)2, decomposition reaction O CaO + H2O → CaOH, Combination reaction	2
21. The reaction in which two compounds exchange their ions to form two new compounds	ds is
 a displacement reaction a decomposition reaction an isomerization reaction a double displacement reaction When green coloured ferrous sulphate crystals are heated, the colour of the crystal changes because 	2
 It is decomposed to ferric oxide It loses water of crystallisation It forms SO3 it forms SO2 	2
23. A compound used for white washing is Quick lime ○ Slaked Lime ○ Blue Vitriol ○ Limestone 	2
24. Color of Magnesium oxide is White O Blue O Grey O Pink	2
25. A substance x is an oxide of an group 2 element is used in cement industry. On treatment with water it forms solution which turns red litmus to blue. Identify X ? ○ Slaked Lime ② Quick lime ○ Silver Sulphide ○ Limestone	2

18. What type of reaction is respiration

26. Wł	hich of the following is true for an unbalanced chemical equation?	_
0 0 0	Number of atom is equal on both sides of the equation Number of atoms is less on the left side of the equation Number of atoms is more on the right side of the equation Both B and C	2
27. Wł	hich reactant is reduced in given reaction CuO + H2 → Cu + H2O	_
Co	pper Oxide ○ Oxygen ○ Hydrogen ○ None of Above	2
28. Wł	nich of the following does not involve a chemical reaction?	
○ ○ ○ ② 29. Th	Digestion of food in our body Process of Respiration Burning of candle wax when heated Melting of candle wax on heating e neutralization reaction between an acid and a base is a type of	2
© O O O 30. Th	double displacement reaction displacement reaction addition reaction Decomposition reaction e neutralization reaction between an acid and base is a type of	2
O En	dothermic Exothermic Amphoteric None of Above	2
C(s)	hich of the following statement about the reaction below are incorrect ? 2PbO(s) → 2 Pb(s) CO2 (g) 1. lead is getting reduced 2. Carbon dioxide is getting ised 3. Carbon is getting oxidised 4. Carbon is getting oxidised	
● 1 a	and 2 O 1 and 3 O 1, 2 and 3 O all of above	2
32. On	n immersing an iron nail in CuSO4 solution for a few minutes, you will observe	
○ ● ○ ○ ○ 33. Wł	No reaction takes place The color of solution fades away The Surface of iron nails acquire a balck coating The color of solution changes to green hich of the following is not physical change ?	2
O O O ● 34. W€	Boiling of water to give water vapour Melting of ice to give water Dissolution of salt in water Combustion of Liqedfied Petroleum Gas (LPG) e store silver chloride in a dark coloured bottle because it is	2
0 0 •	a white solid undergoes redox reaction to avoid action by sunlight none of above	2

	chemical reaction between sulphuric acid and barium chloride solution the white bitates formed are of :	
O HCL	BaSO4 ○ SO4 ○ CL	2
36. A ch	nemical reaction does not involve	
O E O F ⊚ (37. The	Formation of new substances entirely different properties than that of the reactants Breaking of old chemical bonds and formations of new chemical bonds. Rearrangement of the atoms of reactants to form new products Changing of atom of on element into those of another element to form new products. displacement reaction between iron (III) oxide and a metal X is used for welding ill tracks. Here X is:	2
O Copp	per granuels O Sodium pellets O Aluminium dust O Magnesium ribbon	2
	en ferrous sulphate is heated strongly it undergoes decomposition to form ferric as a main product accompanied by a change in color form	
O Blue	to Green Green to Brown Green to Yellow Brown to Green	2
	ore burning in air, the magnesium ribbon is cleaned by rubbing is cleaned rubbing a sand paper to :	_
FFF	Make the ribbon surface shiner Remove the layer of magnesium oxide from the ribbon surface Remove the layer of magnesium carbonate from the ribbon surface Remove the moisture from the ribbon surface dation is a process which involves	2
0 a	addition of oxygen addition of hydrogen removal of oxygen removal of hydrogen	2
41. Red	uction is a process which involves	2
rra	addition of hydrogen removal of oxygen removal of hydrogen addition of oxygen n electrolytic cell where electrolysis is carried, anode has:	_
FOO	Positive charge Negative Charge Connected to negative terminal of the better None of these is correct	2

43. To indicate the presence of gaseous reactants or product, we use the symbol	_
 (Product)g or (Reactant)g (Product)- or (Reactant)- (Product). or (reactant). Both (a) and (b) 	2
44. Which of the following is a physical change?	_
 Formation of curd from milk Ripening of fruits Getting salt from sea water Burning of wood 	2
45. Silver article turns black when kept in the open for a few days due to formation of	1
O H2S O AgSO4 Ag2S	_
46. Which of the following is not a characteristic of a chemical reaction?	2
 Change in state Change in temperature Evolution of gas Evolution of liquid Chemical formula of marble 	
O CaO O Ca(OH)2 O Mg(OH)2 CaCO3	2
48. aMg3N2 + bH20 \rightarrow cMg(OH)2 + dNH3 when the equation is balanced, the coefficients b, c and d respectively are -	a,
	2
49. In the reaction xPb(NO3)2 \rightarrow yPbO(s) + zNO2(g) + O2(g) Values of x, y and z respectively are	
\bigcirc 1, 1, 2 \circledcirc 2, 2, 4 \bigcirc 1, 2, 4 \bigcirc 4, 2, 2	2
50. In the balanced equation Na2Co3 + xHCL \rightarrow 2Nacl + CO2 + H2O. The value of x is	2
O 1 ● 2 O 3 O 4	2
51. Lead nitrate Pb(NO3)2, on heating forms Lead oxide (PbO) solid and Nitrogen dioxide gas. What are the color of lead oxide and nitrogen dioxide ?	
○ White, Colourless ○ White, Brown ⑥ Yellow, Brown ○ Yellow, Colourless	2
52. One of the following is an endothermic reaction. This is	2
 Combination of carbon and oxygen to form carbon monoxide Combination of nitrogen and oxygen to form nitrogen monoxide Combination of glucose and oxygen to form carbon dioxide and water Combination of zinc and hcl form zinc chloride and hydrogen 	2

53. Name of the products formed when iron fillings are heated with dillute hydrochloric acid	
 Fe (III) chloride and water Fe (II) chloride and water Fe (II) chloride and hydrogen gas Fe (III) chloride and hydrogen gas 	2
54. A reaction of hyrdogen with water to form water is	2
 Endothermic reaction Exothermic reaction Decomposition reaction Reaction not feasible 	-
55. What is observed when a solution of potassium lodide is added to silver nitrate solution ?	
 No reaction takes place White precipitate of silver iodide is formed yellow precipitate of Agl is formed Agl is soluble in water 	2
56. Give the ratio in which hydrogen and oxygen are present in water by volume.	
O 1:2 O 1:1	2
57. To facilitate the electrolysis of water we add a few drops of acids like sulfuric acid or salts like NaCl because :	
 It acts as a catalyst It prevents the decomposition of electrodes used It increase the electrical conductivity of water None 	2
58. Which of the following is a displacement reaction?	2
O Zn + CuSO4 -> ZnSo4 O BaCl2 (aq) + Na2SO4 (aq) -> BaSO4 (s) + 2Nacl(aq) O H2 + O2 -> H2O © Zn + CuSO4 -> ZnSO4 + Cu	
59. Which one is not type of decomposition reaction ? ○ Heat ○ Electricity ○ Light ◎ Water	2
60. Complete the following decomposition reaction 2FeSO4> Fe2O3 + X + Y	2
○ CO2, CO3 ○ NO2, NO3 ○ H2O, H2 ⑤ SO2, SO3	
61. Which reaction is not a characteristic of a chemical change ○ Mg + O2 -> MgO2 ○ Au + H2O -> Au(OH)2 ○ C + O2 -> CO2 ○ None of above	2
62. Which is not a type of chemical reaction	
○ combination ○ displacement ○ decompositon ● None of Above	2

O Displacement O Decomposition Combination O All of Above 2	
64. An example of exothermic reaction is	
65. Symbol A used while representing some chemical changes stands for	
O Light ● Heat O Catalysts O Pressure	
66. Which of the following statements is/are correct ?	
O A chemical equation tells us about the substances involved in a reaction O A chemical equation informs us about the symbols and formulae of the substances involved in a O A chemical equation tells about the atoms or molecules of the reactants and products in a react O All of Above	
67. Which of the following is a combustion reaction	
⊕ Burning of Petrol ⊖ Boiling of water ⊖ Melting of wax ⊖ None of these 2	
68. Neutralization reaction is an example of exothermic reaction one endothermic reaction one of these	
69. Which of the following reactions involves the combination of two elements?	
O CaCo3 + Co2 -> CaCo3	
4Na + O2 -> 2Na2O 603 + 1/203	
O SO2 + 1/202 -> SO3 O NH3 + HCL -> NH4Cl	