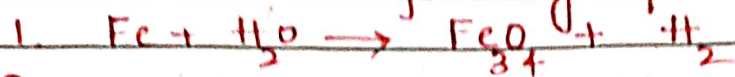
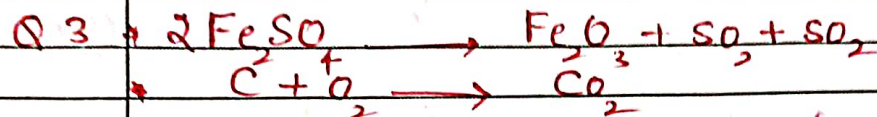


Answer the following questions

Q 1. Balance the following equation (1)

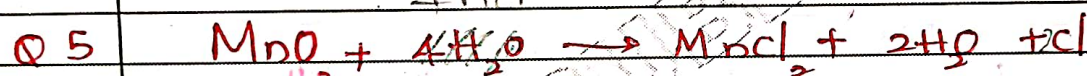


Q 2. Give two examples of ^{what are} exothermic reaction. Support your answer by giving two examples. (2)



Name the above reactions and write difference betⁿ them (2)

Q 4. Substance X is heated in the presence of oxygen it gives Black substance is formed. Name the reaction and write balanced equation (2)



What type of reaction and define it (1)

Q 6. Give two examples of olfactory indicators (1)

Q 7. (a) What is pH range of our body (1)
 (b) What is pH of acid-rain? (1)

Q 8. Name the salt which is used in the manufacturing of glass, soap and paper. Write its chemical formula. (1)

Q 9. Write an equation to show the reaction between Plaster of Paris and water. (1)

Q 10. Why Hydrogen gas is not evolved when a metal react with HNO_3 ? Name two metals which react with HNO_3 evolve H_2 (2)

Q 11. Give reason (2)

1) Why Melting and Boiling point of MgCl_2 is high.

2) Why ethanol is bad conductor of heat, etc electricity

Q 13 Name the reaction which is used to join railway tracks. Write chemical reaction. Name the metal which is obtained in liquid state (3)

Q 14 Draw electron dot structure of Nitrogen and HCl. (2)

Q 15 Write any 4 properties of covalent compounds (2)

Q 16 Define cationation. St Draw SL of ethane and ethyne (3)

Q 17 Identify the functional group present in following (3)

(c) 1) $\text{CH}_3-\overset{\text{O}}{\parallel}-\text{CH}_3$ 2) $\text{CH}_3-\text{CH}_2-\text{CH}_2-\text{CHO}$ (2)

Write formula of group and give one example (3)

Q 18) Write 4 chemical properties of carbon with an example (4)

Q 19) What happens when saturated hydrocarbons are heated at 443K with excess conc H_2SO_4 . Write chemical reaction. Name dehydrating agent (3)

Q 20 (a) Write IUPAC name of the carbon compound which is main constituent of wine, beer tonics and cough syrup (1)

(b) Draw the structure of cyclopentane and calculate the number of single covalent bonds (2)

(c) Name the allotrope of carbon which is a good conductor of electricity (1)

(d) What happens when hydrogen is added to ethene in presence of nickel? Write one application of this reaction? (2)