**Work sheet- term -1(2017-18)**

**Class-VIII**

**(CHEMISTRY)**

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| 1. | Name two most ductile metals. |
| 2. | People throw their leftover eatables along with the polythene bags. Is this correct? What are its consequences? How can you improve upon the situation |
| 3. | **Fill up the blanks :**  1. Fibres we get from plant and animals are called \_\_\_\_\_\_\_\_\_\_\_\_\_\_.  2. Artificial fibres are commonly called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.  3. The simple molecule of molecule in a polymer is called \_\_\_\_\_\_\_\_\_\_\_\_\_.  4. The polymer of natural fibre cotton is called \_\_\_\_\_\_\_\_\_\_\_\_\_\_.  5. The material which can easily be molded is called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.  6. The process by which artificial fibres are made from simple fibre is called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.  7. The raw material used for the production of rayon is \_\_\_\_\_\_\_\_\_\_\_\_\_\_.  8. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is made by the polymerisatin of amide molecules.  9. Terylene is obtained by the polymerising the molecule of \_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.  10. Acrylic fibre is obtained by the polymerisation of molecules of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.  11. Fibre resembles like wool----------------------.  12. PVC stands for \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.  13. PET stands for \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.  14. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ prepared by the polymerization of vinyl chloride molecules. 15. Two examples of thermoplastic.  15.Two examples thermosetting plastic.  16. The materials which get decomposed through natural process such as the action of bacteria are called \_\_\_\_\_\_\_\_\_\_\_\_\_\_.  17. Name any three synthetic fibres. |
| 4. | Name the following questions:-  1. Name two common metals used in our daily life.  2. One non metal which is good conductor of electricity.  3. Property of metals which make them useful for making utensils.& electric wires .  4. Non – metal which has metallic luster.  5. One metals which exist in liquid state.  6. Name one highly reactive and one least reactive metal. |
| 5. | What are the drawbacks of using solid fuel? |
| 6. | a)Give one word :    Synthetic fibre    Source of rayon    Material similar to silk in appearance    Chemical name for cotton    A polymer is a chain of many small units joined together which are called?   b)Why plastic can be molded into any shape and size and why is it advised to avoid the use of plastics as far as possible, also suggest some methods to limit its consumption. |
| 7. | An element Xburns in air to form an oxide (a white powdery ash). The aqueous solution of this oxide turns red litmus paper blue. State whether the element is a metal or non-metal. Name one such element. |
| 8. | a) What happens when coal is heated in the absence of air? Name this process and write the name of the product formed during this process.  b) Write down the various constituents of petroleum and their uses. (5)  c) What precautions should be taken while using LPG? |
| 9. | Name the gases which lead to formation of acid rain? |
| 10. | Draw a well labeled diagram for the flame of a candle and explain all zones. |
| 11. | Write any four characteristics of good fuel. |
| 12. | What precautions should be taken while using LPG? Write the full form of C.N.G. and L.P.G. |
| 13. | What are the harmful effects on the environment due to burning of fuels? |
| 14. | Why plastic can be molded into any shape and size and why is it advised to avoid the use of plastics as far as possible?Also suggest some methods to limit its consumption. |
| 15. | a) Name a few fuels used in our homes. b) Name a few fuels used in trade and industry. c) What are the essential conditions required for combustion  d) What is the essential condition required for extinguishing fire? e) What are inflammable substances? f) In what form is LPG stored in cylinders? g) Name the most common fire extinguisher? |
| 16. | a)How do we get polycot?  b) Why does rayon smell like burning paper; although it is a synthetic fiber?  c) Why plastic does not rust like iron?  d)  Is nylon fibre so strong, that we can use it to make parachutes?  e)  Give some uses of PET  f)  Why is melamine used for making kitchenware?  g)  Give three advantages of polythene over natural materials.  i)  Give three advantages of rayon. |
| 17. | Write any three constituents of petroleum and their uses.   Why is acrylic more popular than wool? |
| 18. | a)What fuels are used for running automobiles? b)What is the difference between the burning of a candle and burning of a fuel like coal? |
| 19. | Water is not suitable for extinguishing fires involving electrical equipment oil and petrol. Why? |
| 20. | a)What are the requisites (qualities) of a good (ideal) fuel? b) Suppose you are asked to boil a given quantity of water using cow dung cake, coal and LPG as fuels. Which fuel would you prefer? Give your reason. c) Define calorific value of a fuel. Though hydrogen has got highest calorific value but it is not used as a domestic fuel. Why? d) Name various types of combustion. Give example of each type? |
| 21. | Differentiate between.        (a) Combustible and non combustible substances        (b) Complete combustion and incomplete combustion.       (c) Luminous and Non-luminous flames. |
| 22. | What are the disadvantages of plastics? Why is it convenient to store plastic containers than metals? |
| 23. | a)Why is it not advisable to burn plastic and synthetic fibers?  b) Write differences between PVC (polyvinylchloride) and Bakelite.  c) Write an activity to show synthetic fibers is stronger than cotton fibers. |
| 24. | a)Give examples to show that plastics are noncorrosive in nature.   b)What are the advantages of using fabrics made of polyester?   c) What are the disadvantages of wearing synthetic fabrics? |
| 25. | **1.**  Why is acrylic more popular than wool?  **2.**  What is the difference between natural and synthetic fibres? |
| 26. | Explain how CO2 is able to control fires? |
| 27. | Explain why plastic containers are favored for storing food?  Explain why Electric plugs/switches/plug boards are made of thermosetting plastics? |
| 28. | Name the gases which lead to formation of acid rain? |
| 29. | In an experiment 10 Kg of a fuel produced 200,000 KJ 0f heat. Calculate the calorific value of the fuel. |
| 30. | Distinguish between Thermosetting plastics and Thermoplastic Plastic? |

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