

WORKSHEET-1

- Multiple choice questions: (Tick the correct option).
 - Fullerene molecule [C₆₀] is named after
 - H.W. Kroto
 - R.F. Curl
 - Robert Buckminster Fuller
 - R.E. Smalley
 - For combustion reactions
 - air is essential
 - a combustible substance is essential
 - both (a) and (b) are essential
 - none of the above
 - Petrol is
 - combustible
 - a supporter of combustion
 - non-combustible
 - none of the above
 - Which of the following is a solid fuel?
 - Petrol
 - Kerosene
 - Coke
 - Methanol
 - Graphite is used as lubricant because it is
 - good conductor of heat
 - good conductor of electricity
 - very soft
 - soluble in oil
 - The property due to which gases and liquids accumulate on the outer surface of solids is known as
 - absorption
 - adsorption
 - adhesion
 - cohesion
 - When steam is passed over white hot coke, it forms
 - carbon dioxide and water
 - carbon dioxide and hydrogen
 - carbon monoxide and hydrogen
 - carbon monoxide and methane

8. The process due to which heated ferric oxide changes to metallic iron on passing carbon monoxide gas over it is called
 - (a) oxidation
 - (b) reduction
 - (c) dehydration
 - (d) decomposition
 9. The content of carbon in anthracite variety of coal is
 - (a) 90% – 95%
 - (b) 75% – 80%
 - (c) 60% – 70%
 - (d) 50% – 60%
 10. The product which is not obtained from the fractional distillation of crude petroleum is (a) kerosene oil (b) lubricating oil (c) linseed oil (d) diesel oil
2. Fill in the blanks with appropriate word.
1. Black diamonds are used for cutting and polishing other
 2. Coal is formed due to removal of hydrogen from the buried forests by bacteria.
 3. The fractions obtained by the of residual oil are asphalt, paraffin wax and lubricating oils.
 4. Natural gas consists of 95% and 5% of other hydrocarbons.
 5. An ideal fuel should leave no on combustion.
 6. Domestic gas cylinders contain mostly
 7. Burning of wood and coal causes of air.
 8. Fossil fuels are obtained from matter.
 9. Water gas is obtained by passing steam over white hot coke at temperatures above
 10. Haemoglobin has a great affinity for
3. Define LPG. State the advantages of using LPG as a domestic fuel.
 4. (a) State the composition of natural gas.
(b) State two uses of natural gas.
 5. How is biogas prepared? What are the advantages of using biogas?
 6. What are three conditions necessary for combustion?
 7. Define:
 - (i) Allotropy
 - (ii) Ignition temperature
 - (iii) Combustion
 - (iv) Inflammable substances.
 8. What is the composition of bone charcoal?
 9. How can you control a fire?

10. Give reasons for the following.

1. A burning candle can be extinguished by blowing air on it.
2. A soda acid fire extinguisher is not used for fighting oil fires
3. Carbon monoxide interferes with the normal process of respiration.