



SCIENCE

CH:6- COMBUSTION AND FLAME

Name: _____

Date: _____

Class: VIII Sec: ____

I Multiple Choice Questions:

1. A substance which reacts with oxygen giving heat is called a combustible substance. Which, one of the following is a combustible substance?
(a) iron nail (b) glass (c) stone piece (d) wood
2. Which one of the following has the highest calorific value?
(a) kerosene (b) biogas (c) LPG (d) petrol
3. Which of the following is not a combustible substance?
(a) camphor (b) glass (c) straw (d) alcohol
4. On placing an inverted tumbler over a burning candle, the flame extinguishes after some time. This is because of non availability of
(a) oxygen (b) water vapours (c) carbon dioxide (d) wax
5. The substance expected to have the highest ignition temperature out of the following is
(a) kerosene (b) petrol (c) coal (d) alcohol

II Answer the following:

6. Two glass jars A and B are filled with carbon dioxide and oxygen gases, respectively. In each jar a lighted candle is placed simultaneously. In which jar will the candle remain lighted for a longer time and why?
7. Anu wants to boil water quickly in a test tube. On observing the different zones of the flame, she is not able to decide which zone of the flame will be best for boiling water quickly. Help her in this activity.
8. Why is the use of diesel and petrol as fuels in automobiles being replaced by Compressed Natural Gas (CNG) in big cities?
9. People usually keep *Angethi*/burning coal in their closed rooms during winter season. Why is it advised to keep the door open?
10. You are provided with three watch glasses containing milk, petrol and mustard oil, respectively. Suppose you bring a burning candle near these materials one by one, which material(s) will catch fire instantly and why?
11. Manu was heating oil to fry potato chips. The cooking oil all of a sudden caught fire; he poured water to extinguish the fire. Do you think this action was suitable? If yes, why? If not, why not? In such a condition what should Manu have done?
12. What are the three essential requirements to produce fire? How fire extinguisher is useful for controlling the fire.