

**CBSE Class 8 Science**  
**NCERT Exemplar Solutions**  
**CHAPTER 6**  
**Combustion and Flame**

---

**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**

**Ans.** (d) Wood is a combustible substance.

---

**2. Which one of the following has the highest calorific value?**

- (a) kerosene**
- (b) biogas**
- (c) LPG**
- (d) petrol**

**Ans.** (c) LPG has the highest calorific value. It is nearly 55000 KJ/Kg.

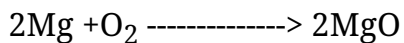
---

**3. Magnesium ribbon on burning in air produces**

- (a) magnesium oxide, water and light**
- (b) magnesium oxide and heat**
- (c) magnesium oxide, heat and light**

**(d) magnesium oxide, water and heat**

**Ans.** (c) magnesium burns in air to form magnesium oxide, heat and light



**4. Which of the following is not a combustible substance?**

**(a) camphor**

**(b) glass**

**(c) straw**

**(d) alcohol**

**Ans.** (b) Glass is not a combustible substance, combustible substance catches fire easily in presence of air.

---

**5. The substance that does not burn with flame is**

**(a) LPG**

**(b) camphor**

**(c) dry grass**

**(d) charcoal**

**Ans.** (d) Charcoal does not give flame on burning.

---

**6. 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**

**Ans.** (a) Oxygen is a supporter of combustion. On inverting the tumbler, the availability of oxygen is restricted and hence the candle blow off.

---

**7. If a person's clothes catch fire, the best way to extinguish the fire is to:**

**(a) throw water on the clothes.**

**(b) use fire extinguisher.**

**(c) cover the person with a woolen blanket.**

**(d) cover the person with a polythene sheet.**

**Ans.** (c) If a person's clothes catch fire, the best way to extinguish the fire is to cover the person with a woolen blanket, woolen blanket won't allow oxygen to pass through it.

---

**8. The substance expected to have the highest ignition temperature out of the following is**

**(a) kerosene**

**(b) petrol**

**(c) coal**

**(d) alcohol**

**Ans.** (c) Ignition temperature is high and hence ignites after some time on application of heat.

---

**9. Choose the correct statement about inflammable substances from the following.**

**They have:**

**(a) low ignition temperature and cannot catch fire easily.**

**(b) high ignition temperature and can catch fire easily.**

**(c) low ignition temperature and can catch fire easily.**

**(d) high ignition temperature and cannot catch fire easily.**

**Ans.** (c) The substance which have very low ignition temperature and can easily catch fire with a flame are called inflammable substances.

---

**10. Choose the incorrect statement from the following. Forest fires are usually due to:**

**(a) carelessness of humans**

**(b) heat of sun**

**(c) cutting of trees**

**(d) lightning strike**

**Ans.** (c) cutting of trees

---

**11. The calorific value of a fuel is expressed in a unit called**

**(a) kilojoule per litre**

**(b) kilogram per millilitre**

**(c) kilojoule per gram**

**(d) kilojoule per kilogram**

**Ans.** (d) Calorific value of fuel expressed in unit called kilojoule per kg (kJ/Kg)

---

**12. In villages, people use wood as fuel because:**

**(a) it is considered to be an ideal fuel.**

**(b) of its easy availability and low cost.**

**(c) it is environment friendly.**

**(d) it catches fire easily.**

**Ans.** (b) Wood is in high demand to be used as fuel because of its easy availability and low cost.

---

**13. Which among the following is considered as the cleanest fuel?**

- (a) cow dung cake**
- (b) petrol**
- (c) kerosene**
- (d) hydrogen gas**

**Ans.** (d) hydrogen gas

---

**14. Choose the incorrect statement from the following.**

**A good fuel is one which:**

- (a) is readily available.**
- (b) produces a large amount of heat.**
- (c) leaves behind many undesirable substances.**
- (d) burns easily in air at a moderate rate.**

**Ans.** (c) leaves behind many undesirable substances.

Good fuel have following qualities.

- Readily available
- Inexpensive
- Burns easily in air at a judicious rate.
- Liberates large amount of heat.
- Should not leave behind any undesirable residues.
- Easy enough to store, transport, and handle.
- It should have high calorific value.

- It should have ignition temperature above the room, temperature.
  - It should produce less hazardous products on burning.
- 

**15. Shyam was cooking potato curry on a chulha. To his surprise, he observed that the copper vessel was getting blackened from outside. It may be due to:**

- (a) proper combustion of fuel.**
- (b) improper cooking of potato curry.**
- (c) improper combustion of the fuel.**
- (d) burning of copper vessel.**

**Ans.** (c) improper combustion of the fuel produces unburnt carbon particles that gets on the surface of the utensils as black layer.