



# CHEMISTRY

## BOOKS - MBD

### COMBUSTION AND FLAME

#### Example

1. List conditions under which combustion can take place.



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2. Fill in the blanks. Burning of wood and coal causes..... Of air.



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3. Fill in the blanks. A liquid fuel ,used in homes is.....



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4. Fill in the blanks . Fuel must be heated to its .....before it starts burning.



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5. Fire produced by oil cannot be controlled by.....



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6. Explain how the use CNG in automobiles has reduced pollution in our cities.



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7. Compare LPG and wood as fuels.



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8. Give reason : Water is not used to control fire involving electrical equipment.



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9. Give reason: LPG is better domestic fuel than wood .



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10. Give reason : Paper by itself catches fire easily whereas a piece of paper wrapped around an aluminium pipe does not,



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11. Make labelled diagram of candle flame.



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12. Name the unit in which calorific value of a fuel is expressed.



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13. Explain how  $CO_2$  is able to control fires.





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**14.** It is difficult to burn a heap of green leaves but dry leaves catch fire easily. Explain.



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**15.** Which zone of a flame does a goldsmith use for melting gold and silver and why ?



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**16.** In an experiment 4.5 kg of a fuel was completely burnt. The heat produced was measured to be 180,000 KJ. Calculate the calorific value of a the fuel.



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**17.** Can the process of rusting be called combustion ? Discuss.



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**18.** Abida and Ramesh were doing an experiment in which water to be heated in a beaker. Abida kept the beaker near the wick in the yellow part of the candle flame. Ramesh kept the beaker in the outermost part of the flame.whose water will get heated in a shorter time?



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**19.** Fuel is :

A. Solid

B. Liquid

C. Gas

D. Solid, liquid and gas

**Answer:**



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**20.** Which of the following gas is supporter in combustion?

A. Oxygen gas

B. L.P.G.

C. Nitrogen gas

D. Carbondioxide gas

**Answer:**



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**21. Which of the following is combustible substance?**

A. Iron nail

B. Glass

C. Paper

D. A piece of stone

**Answer:**



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**22.** List conditions under which combustion can take place.

A. Fuel and air

B. Fuel, air and ignition temperature

C. Fuel, air and ignition temperature

D. Air and ignition temperature

**Answer:**



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**23.** Which out of the following has minimum ignition temperature?

A. Petrol

B. Kerosene

C. Coal

D. L.P.G

**Answer:**



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**24. Define acid rain.**



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25. While extinguishing fire of electric wires and electric instruments, which of the following item is not used?

A. Sand

B. Water

C. Foam

D. Carbondioxide gas

**Answer:**



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26. What is calorific value of a fuel?

A. Joule

B. Kilo joule/ kg

C. Kilo joule

D. None of the above

**Answer:**



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**27.** What are the harms caused by burning of fossil fuels?



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**28.** Which of the following solid fuels has the highest heat value : Cow- dung cakes, coal, wood?



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**29.** Name the most commonly used liquid fuel in Indian homes.



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**30.** Name three fossil fuels.



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**31.** When fuels burn, what do they produce?



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**32.** What is ignition temperature?



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**33.** Name two liquids which have low ignition temperatures.



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**34.** What type of fire extinguisher is used to extinguish fire caused by electricity?



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**35.** Which gas is used for combustion ?



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**36.** Define the term fossil fuel. Name three fossil fuels.



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**37.** Name type of fire extinguisher used for extinguishing oil fires.



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**38.** Why charcoal is considered better fuel than wood?



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**39.** Name the zones of a candle flame.



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**40.** Name two substance which may be effective in fire fighting.



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**41.** Name three combustible substances.



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**42.** What are fuels? In which different states fuels are found?



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**43.** How will you prove that air is required for combustion?



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**44.** How can you feel air ?



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**45.** Why do Goldsmiths use a blow -pipe?



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**46.** Why do combustible substances not catch fire on their own?



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**47.** Explain Ignition temperature, combustible substance, supporter of combustion in reference to conditions of combustion.



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**48.** Given the reaction:



Calculate the calorific value of carbon (atomic weight of C= 12, O= 16).





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**49.** Why is a match stick lighted on rubbing it on the rough surface provided on the side of the match box?



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**50.** Why is coke considered a better fuel than coal? Give four reasons.



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51. What do you mean by fire fighting?



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52. What should you do to put out the fire?



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53. Why should water not be used to extinguish fire due to:

Kerosene or petrol



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**54.** Why should water not be used to extinguish fire due to:

Short circuiting?



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**55.** Why do we wrap a blanket around a person who has caught in fire?



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**56.** Why are we advised not to sleep in a room with a burning coal ingithi in it?



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**57.** Explain global warming.



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**58.** What is acid rain? What are its effects on plants ?



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**59.** Explain the zones of candle with the help of a diagram .



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**60. Describe**

Rapid combustion



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**61. Describe**

Spontaneous combustion



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**62. Describe**

Slow combustion



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**63. Describe**

Explosive combustion.



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