



**INDIAN SCHOOL DARSAIT**  
**DEPARTMENT OF SCIENCE**

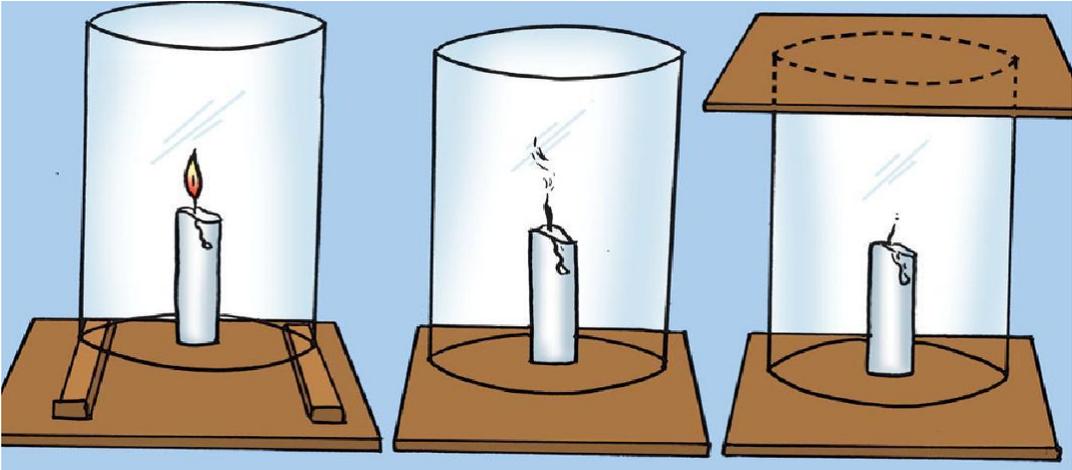


**Subject :** Biology/Chemistry    **Topic :** Combustion and Flame.    **Date of Worksheet :** 27-8-2018

**Resource Person :** Mrs. Haseena Begum

**Name of the Student :** \_\_\_\_\_    **Class & Division :** \_\_\_\_\_    **Roll Number :** \_\_\_\_\_

Q1.	Define the following. a. Combustion                      b. flame	1																		
2	What causes greenhouse effect?	1																		
3	Why does white phosphorous catch fire on its own?	1																		
4	What causes Acid rain?	1																		
5	Why do forest fires occur in summer?	1																		
Q.6.	<b>Match the following</b>	5																		
	<table border="1" style="width: 100%;"><thead><tr><th style="width: 40%;">Column A</th><th style="width: 40%;">Column B</th><th style="width: 20%;">Ans</th></tr></thead><tbody><tr><td>a. Carbon dioxide</td><td>i) also called gobar gas</td><td></td></tr><tr><td>b. Oxygen</td><td>ii) highest calorific value</td><td></td></tr><tr><td>c. Hydrogen</td><td>iii) gas essential for burning</td><td></td></tr><tr><td>d. Biogas</td><td>iv) non pollutant vehicular fuel</td><td></td></tr><tr><td>e. CNG</td><td>v) used in fire extinguisher</td><td></td></tr></tbody></table>	Column A	Column B	Ans	a. Carbon dioxide	i) also called gobar gas		b. Oxygen	ii) highest calorific value		c. Hydrogen	iii) gas essential for burning		d. Biogas	iv) non pollutant vehicular fuel		e. CNG	v) used in fire extinguisher		
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Q.7.	<b>Fill in the blanks :-</b>  a. Burning of matchstick is an example of _____ combustion. b. One should never use water for extinguishing _____ fires. c. Combustion of food inside living cells occurs through _____. d. Nowadays in place of petrol and diesel, a cleaner fuel _____ is recommended.	4																		

Q.8	When a person's clothes catch fire, you should quickly wrap him in a thick blanket and roll him on the ground. Why?	2
Q.9	Differentiate between complete and incomplete combustion?	2
Q.10	How it is possible that water can be boiled in a paper cup without burning it?	2
Q.11	Which is a better domestic fuel: LPG or wood? Give reasons	2
Q.12	What are inflammable substances? Define them with examples.	2
Q.13	How will you distinguish between fire extinguishing action of water and CO <sub>2</sub> ?	2
Q.14	a) Define ignition temperature. b) Define calorific value.	2
Q.15	List any four characteristics of a good fuel.	2
Q.16	In an experiment 10 Kg of a fuel produced 200,000 KJ Of heat . Calculate the calorific value of the fuel.	3
Q.17	Why water is not used for extinguishing fire by petrol and fire in electrical appliances?	3
Q.18	Observe the given FIGURE:  Fig. (a). [Fig. (b)]. [Fig. (c)]. Chimney [Fig. (a)]. Observe what happens to the flame. Now remove the blocks and let the chimney rest on the table [Fig. (b)]. Again observe the flame. Finally, put a glass plate over the chimney [Fig. (c)]. Watch the flame again. What happens in the three cases? Does the flame flicker off? Does it flicker and give smoke? Does it burn unaffected? Can you infer anything at all about the role played by air in the process of burning?	3
Q.19	Differentiate between the three types of combustion.	3
Q.20	Explain the various zones of candle flame by drawing a neat diagram.	3