



# CHEMISTRY

## NCERT - NCERT Chemistry(Telugu)

### COMBUSTION: FUELS AND FLAME

#### Exercise

1. Give four examples of combustible materials



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2. Give four examples of non-combustible materials.



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3. Why should not we store spirit or petrol near our living place?



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4. Give an example of a good fuel. How do you choose that fuel? Explain.



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5. The oil fires should not be sprayed with water. Why?



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6. What precautions are to be taken while pouring water on fire?



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7. Why a wick is not used in gas burners?



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8. Water is not used to control fires involving electrical equipment. Why?



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9. It is difficult to burn a heap of green leaves but not a heap of dry leaves. Explain Why?



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10. Give supporting arguments for both the statements (1) fire is useful (2) fire is harmful.



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**11.** In a few years the fuels on earth will be exhausted. Think, what would happen to human civilization?



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**12.** What would happen if oxygen stops to support combustion? Make a guess. And if it is the situation for what other works fuels are useful.



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**13.** Use of more fuels in our daily life causes air pollution and it is harmful to human being and the other life on earth. Suggest some remedies to avoid this.



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**14.** Let us assume that you are on the moon. If you try to focus sunlight on a paper using magnifying glass, does the paper catch fire? Or not Why?





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**15.** Can you heat water in a paper vessel? How is it possible?



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**16.** "Is combustion possible without the supply of oxygen? Discuss with your teacher/



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**17.** Explain giving reasons: In which of the following situations water will get heated in shorter time?

Srikar kept water beaker near the wick in the yellow part of a candle flame.



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**18.** List the ways adopted by fire fighters to combat fires.



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**19.** Draw the diagram of candle flame and label all the zones.



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**20.** How do you organize your daily works with fuels to conserve bio-diversity?



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**21.** Madhu wants to avoid automobiles and started going to school by bicycle. Do you appreciate his decision?



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**22.** How do you feel about "Fuels have become a part of human life"?



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**23.** Why do some materials burn and some do not?



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**24.** Why do some materials which do not burn at normal temperature burn at higher temperatures?



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**25.** If you lift the glass tumbler (which is placed over a burning candle) to 1 cm height, what happens ? Why?



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**26.** How do you say that the gas released in the experiment is oxygen?



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27. Can we replace potassium permanganate ( $KMnO_4$ ) with any other substance to release oxygen? option 1. hydrochloric acid 2. potassium permanganate 3. salt 4. vinegar



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28. Is there any other procedure to prove that oxygen is needed for burning?



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**29.** Why do we keep phosphorus in water?



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**30.** Why do kerosene stoves and bunsen burners have small holes in them?



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**31.** It is hard to ignite match stick in rainy days.

Why?





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**32.** A wax candle burns with a yellow flame. The domestic gas burns when lighted with a blue flame. Why?



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**33.** Why does candle give flame when it is burnt but why does coal burn without emitting a flame?



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**34.** Do all fuels produce same amount of heat when they are burnt?



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**35.** What do we need to burn a material?



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**36.** When you burn a piece of wood different changes take place. Analyse the following.



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**37.** What will you prove by this experiment?



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**38.** Can we burn a material in the absence of air?



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**39.** A slow fire bursts into a flame when air is blown on it, but a candle burning with flame goes off when air is blown on it. Why?



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**40.** If a large quantity of dry grass is set on fire in forests then it is very difficult to put off the fire. Why?





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**41.** When an object catches fire, the fire is put off by covering with sand or a blanket? Why?



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**42.** What could be the reason for this variation in burning patterns among combustible materials?



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**43.** What makes match sticks to catch fire?



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**44.** Can you decide the best fuel among the solids, liquids and gases?



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**45.** What is the criteria to decide a best fuel ?



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**46.** What is calorific value? Write its units



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**47.** How can we put off the fire if it breaks out?



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**48.** Why the fire brigade start the work by putting off the electric mains?



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**49.** How does water help in eliminating the factors, which support the combustion?



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**50.** What is combustion ?



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51. What are inflammable substance? Give examples.



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52. Write the names of any two liquid fuels.



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53. What is the criteria to decide a best fuel ?



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**54.** What is calorific value? Write its units



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**55.** “Sneha wanted to know why paraffin wax in a candle and the wick in a deepavali oil lamp burn with a flame.” What reason can you give ?



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**56.** Give two examples of fossil fuels.



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**57.** What chemicals are present in the substances applied on the head of a match stick.



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**58.** Where do you find the red phosphorous on the sides of match box or on the tip of (head) match stick?



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**59.** Name the products formed when a candle burns in the air.



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**60.** Write an activity to prove that oxygen helps in burning.



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**61.** "Is combustion possible without the supply of oxygen? Discuss with your teacher/



**Watch Video Solution**

**62.** The oil fires should not be sprayed with water. Why?



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**63.** What precautions are to be taken while pouring water on fire?



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**64.** A slow fire bursts into a flame when air is blown on it, but a candle burning with flame goes off when air is blown on it. Why?



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**66.** When an object catches fire, the fire is put off by covering with sand or a blanket? Why?



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**67.** In a Wax candle flame, how many flame zones do you observe ? Which is the hottest zone ?



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**68.** How many types of combustion is there ?

What are they?



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**69.** Distinguish between combustible materials and non-combustible materials.



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70. Why is water not suitable to put out fires of oil and petrol ?

A. water is lighter material

B. water is colorless material

C. water heavier than oil

D. none

**Answer:**



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**71.** How does water help in eliminating the factors, which support the combustion?



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**72.** What factors do you keep in mind to put out fire when it is spreading ?



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**73.** What are the advantages of using carbon dioxide instead of water to extinguish the



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**74.** What is the reason behind blue and yellow coloured flames in combustion process?



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**75.** Write an activity to prove that oxygen helps in burning.



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**76.** Name the fuel that is commonly used by most of the people

A. Petrol

B. Kerosene

C. Diesel

D. LPG

**Answer:**



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77. Which fuel has highest calorific value

A. Diesel

B. Petrol

C. Cow dung cakes

D. Coal

**Answer:**



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78. Which zone of the flame is brightest

A. Middle

B. Outer zone

C. Inner zone

D. None

**Answer:**



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**79.** Removal of papers from heap is

- A. Cutting the supply of oxygen
- B. Removable of combustible substance
- C. Decreasing temperature of substance
- D. None

**Answer:**



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**80.** Which one of the following is eco-friendly fuel

A. Unleaded petrol

B. Diesel

C. CNG

D. Kerosene

**Answer:**



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81. Fill in the Blanks:.....is a combustible substance.

A. paper,kerosene

B. sand,glass

C. marble stone,glass

D. none

**Answer:**



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**82.** Fill in the Blanks:.....fuels have more calorific value.



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**83.** Fill in the Blanks:.....is necessary for combustion.



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**84.** Fill in the Blanks:Goldsmiths use .....  
zone of flame for making ornaments.



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**85.** Fill in the Blanks:Oil fires cannot be  
controlled by.....



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**86.** Fill in the Blanks: The amount of heat produced by burning 1 kg fuel is called.....



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**87.** Fill in the Blanks: Burning of cow dung cakes cause.....



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**88.** Fill in the Blanks: Vehicles emit.....gases.



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**89.** Fill in the Blanks:.....is necessary for combustion.



[Watch Video Solution](#)

**90.** FILL IN THE BLANKS : When coal is heated in the absence of air we get \_\_\_\_\_ and \_\_\_\_\_



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**91.** Fill in the blanks.

.....was used in manufacture of steel.



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**92.** Coal tar is used in manufacture of



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**93.** Fill in the Blanks:Petrol is obtained from petroleum by.....

A. heating

B. cooling

C. combustion

D. fractional distillation

**Answer:**



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**94. Fill in the Blanks:**Solar energy is.....

A. exhaustible resource

B. in exhaustible resource

C. metal resource

D. none

**Answer:**



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**95.** Fill in the Blanks:examples Renewable sources are.....

A. wind energy,solar energy



B. coal, coke

C. petrol, nylon

D. none

**Answer:**



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**96.** Write an activity to prove that oxygen helps in burning.



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**97.** "Is combustion possible without the supply of oxygen? Discuss with your teacher/



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**98.** Explain giving reasons: In which of the following situations water will get heated in shorter time?

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**99.** List the ways adopted by fire fighters to combat fires.



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**100.** Draw the diagram of candle flame and label all the zones.



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**101.** Which one of the following is non combustible

A. Rock

B. Coal

C. Petrol

D. Wood

**Answer:**



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**102.** Name the fuel that is commonly used by most of the people

A. Kerosene

B. Petrol

C. Charcoal

D. Cowdung cakes

**Answer:**



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**103.** Which of the following is used as a rocket fuel?

A. Gasoline

B. Unleaded petrol

C. Kerosene

D. Diesel

**Answer:**



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**104.** The substance that catches fire at room temperature by heat

A. Coal

B. Petrol

C. Sodium

D. None

**Answer:**



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**105.** Can we separate alcohol dissolved in water by using a separating funnel?

A. Boiling

B. Evaporation

C. Distillation

D. None

**Answer:**



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**106.** Which one of the following is suggested for vehicles,.

A. CNG

B. Unleaded petrol

C. Diesel

D. Kerosene

**Answer:**



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**107.** Removing the unburnt materials from a heap of paper which caught fire

A. Cutting the supply of air

B. Cutting the supply of combustible substance

C. Reducing temperature

D. None

**Answer:**



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**108.** Electrical fires can be controlled by

A. Water

B.  $CO_2$  foam

C.  $Cl_4$

D. None

**Answer:**



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**109.** Gas used in welding is

A. LPG

B. CNG

C. Neutral gas

D. Oxy-acetylene flame

**Answer:**



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**110.** Which zone of the flame is brightest

A. Middle

B. Upper

C. Lower most

D. None

**Answer:**



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**111. FILL IN THE BLANKS :** \_\_\_\_\_ gas is liberated when improper combustion takes place.



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**112. FILL IN THE BLANKS :** Gaseous fuels have \_\_\_\_\_ Value.



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**113. FILL IN THE BLANKS :** \_\_\_\_\_ is used to control the burning of wood or paper.



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**114. FILL IN THE BLANKS :** gold smiths use \_\_\_\_\_ zone of flame.



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**115. FILL IN THE BLANKS :** \_\_\_\_\_ is a non supporter of combustion.



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