



# CHEMISTRY

## NCERT - NCERT Chemistry(TELUGU)

### COAL AND PETROLEUM

#### Example

1. Complete the given analogy

Coal :Exhaustible::\_\_\_\_:Inexhaustible



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2. Complete the given analogy

Coal tar: \_\_\_::Coke: Manufacture of steel



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3. Petrochemical:Plastic::CNG\_\_\_\_\_



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#### 4. Complete the given analogy

Carbon Dioxide:Global warming::\_\_\_\_\_ :Nausea



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#### 5. Match the following.

- |                            |     |                               |
|----------------------------|-----|-------------------------------|
| i) Natural resource        | ( ) | a) Carbonization              |
| ii) Coal                   | ( ) | b) Plastic chair              |
| iii) Petrochemical product | ( ) | c) Krishna and Godavari delta |
| iv) Natural gas            | ( ) | d) Plankton                   |
| v) Petroleum               | ( ) | e) Water                      |



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6. Which one of the following is less polluting fuel?



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7. The main constituent of coal is



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8. Which one of the following materials is used for making shoe polish ?



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**9.** Fill in the blanks.

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



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**10.** Fill in the blanks.

The biproduct of coal used in synthetic dyes and paints is.....



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**11.** Fill in the blanks.

Coal was formed in areas where large amounts of.....was buried under the earth.



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**12.** Fill in the blanks.

.....gas which causes climate change and global warming.



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**13.** Name the petroleum products used for roads surfacing.



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**14.** Explain the process of formation of petrol.



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**15.** What is material science?



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**16.** What are natural resources?



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**17.** How was coal formed?



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**18.** Give two examples of exhaustible natural resources?





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



**Watch Video Solution**

**20.** What is carbonization?



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**21.** What is LPG? What is its use?



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**22. What is CNG? What is its use?**



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**23. What are Petrochemicals?**



**Watch Video Solution**

**24. What is coal tar? How is it useful to us?**



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**25.** What is coke?How is it useful to us?



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**26.** What is diesel? How is it different from petrol?



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**27.** Describe the advantages by using natural gas.



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**28.** Write different constituents of petroleum and their uses.



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**29.** What is barrel?



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30. What will happen if all the forests were cut down?



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31. Why "CNG" being used as a fuel for vehicles?



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**32.** Why should we use fossil fuels only when absolutely necessary?



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**33.** Why petroleum is called black gold?



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**34.** Why are coal and petroleum so versatile?



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**35.** If a resource can be replaced within 10 years by natural process, would you classify it as renewable or non-renewable?



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**36.** Sunlight and groundwater are both renewable resources. What is the difference between them?



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**37.** Can coal, petroleum and natural gas be prepared in the laboratory from dead organisms?



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**38.** What is the difference between destructive distillation and fractional distillation?



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**39.** How do you detect the leakage of gas?



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**40.** How do you show the quality coal evolves a gas?



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**41.** The following table shows the total power shortage percentage in India from 1991-1997.

Show the data in the form of a Bar graph taking shortage percentage for the years on the Y-axis and the years on X-axis.

S.No.	Year	
1.	1991	7.9
2.	1992	7.8
3.	1993	8.3
4.	1994	7.4
5.	1995	7.1
6.	1996	9.2
7.	1997	11.5



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**42.** The following table shows the total power shortage percentage in India from 1991-1997. Show the data in the form of a Bar graph

taking shortage percentage for the years on the Y-axis and the years on the X-axis. If shortage percentage of power increases year by year, how will it affect on human life ?

Sl.No.	Year	Shortage (%)
1.	1991	7.9
2.	1992	7.8
3.	1993	8.3

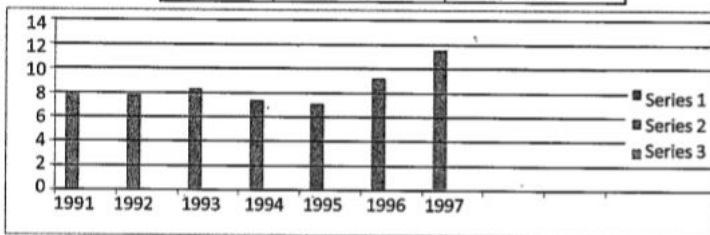
CHAPTER - 6

TBPSM

COAL AND PETROLEUM

VIII PHYSICAL SCIENCE

4.	1994	7.4
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6.	1996	9.2
7.	1997	11.5



Explain.



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**43.** The following table shows the total power shortage percentage in India from 1991-1997. Show the data in the form of a Bar graph taking shortage percentage for the years on the Y-axis and the years on the X-axis. If shortage percentage of power increases year

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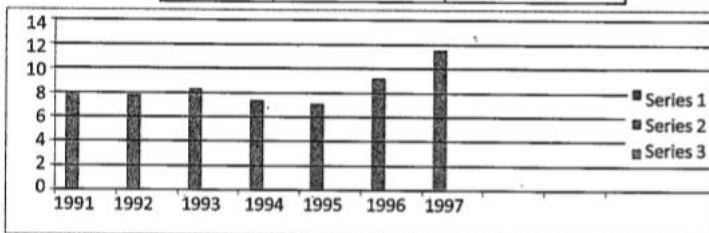
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4.	1994	7.4
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6.	1996	9.2
7.	1997	11.5



Explain.



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**44.** What do you mean by inexhaustible natural resources?



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**45.** What do you mean by petroleum?



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**46.** What do you mean by refining of petroleum?



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**47.** Which fuel used in light vehicles?



**Watch Video Solution**

**48.** Which fuel used in heavy vehicles?



**Watch Video Solution**

**49.** List out the natural resources which are abundant and which are not?



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**50.** Distinguish between exhaustible and ineshhaustible natural resources.



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**51.** What are the harmful effects of burning fossil fuels? How it effect the environment?



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**52.** Prepare a chart which can explain recycling codes, full names and acronym of. plastic and its usage for various household articles, recycled or not, if recycled what will be made from that ?



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**53.** Why natural gas is called as ideal fuel?



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**54.** Draw a flow chart showing Exhaustible and Inexhaustible resources and their uses.



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**55.** Collect information about places where we get coal, petroleum and natural gas in India and mark the places on outline map of India.

(AS<sub>5</sub>)



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**56.** write uses of petroleum?



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**57.** Draw the diagram of uses of coal and its products ( $AS_5$ )



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**58.** How do you appreciate the efforts of human beings to discover an alternate energy sources to coal and petroleum for their daily use?



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**59.** Harshith said to his father, "Daddy we can save more fuel by using bicycle instead of bike for going to nearby places". How do you appreciate Harshith's comment?



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**60.** What precautionary measures can we take to conserve petrol/diesel?



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**61.** What precautions do you take in using LPG as household fuel?



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**62.** Why should people look for alternative sources of fossil fuel?



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**63.** Assume that you are a driver, what measures do you take to save petrol and

diesel?



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**64.** "Crude oil and refined fuel when spills into the sea from tanker of ships by accident".

Discuss the consequences of this on environment.



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**65.** "The use of CNG and LPG as fuels for automobiles helps us to minimize air pollution and maintains ecological balance." Do you agree with this statement ? If yes, explain.



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**66.** List out the natural resources which are limited and which are abundant and record them in table.



What will happen if fossil fuel like coal and petroleum are completely exhausted?



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**67.** List out the natural resources which are limited and which are abundant and record them in table.

What would be our future energy resources?



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**68.** List out the natural resources which are limited and which are abundant and record them in table.

Are the fossil fuel resources available plenty to meet the future energy needs?



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**69.** List out the natural resources which are limited and which are abundant and record them in table.

What actions are required to meet the future energy needs?

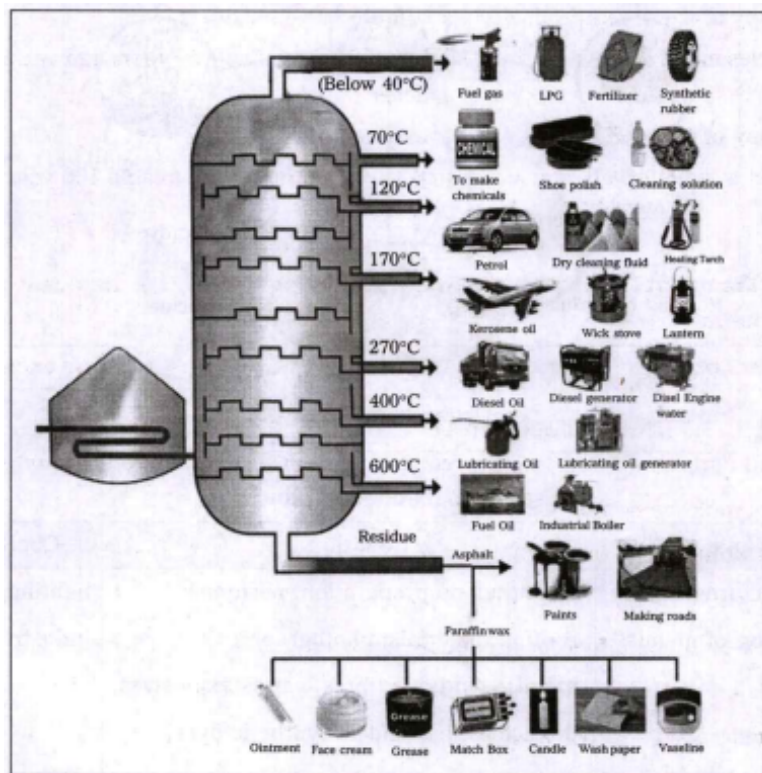


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**70.** Identifying various uses of petroleum.

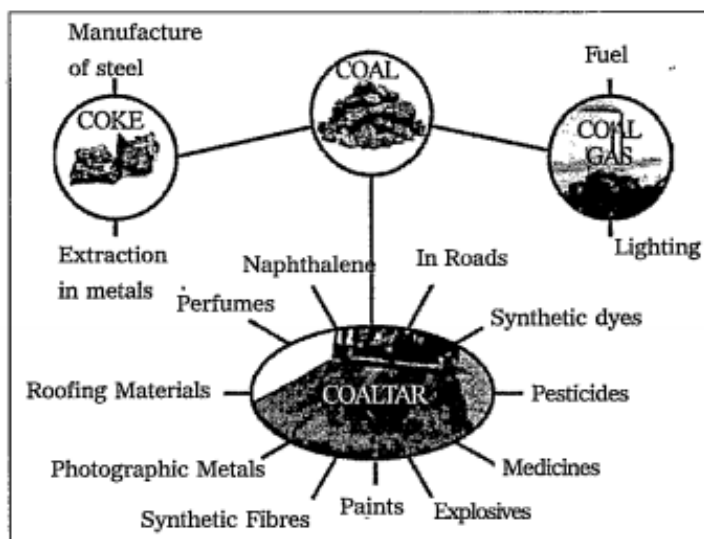
Look at the figure and find the other uses of

petroleum and its products. Fill in the table.



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71. Observe the given picture and list out the uses of coal products in the following table. You can collect more information by the discussion with elders and with your friends.



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**72.** Write an experiment which shows that when we heat high quality coal (carbon content is more) a gas evolves which can burn.



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**73.** Group discussion on misuse of fuel resource and its consequences.

Discuss in small groups how fuel resources are being misused in our daily life while doing various activities like transportation

cooking

industrial use.



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**74.** Group discussion on misuse of fuel resource and its consequences.

What are the consequences of misuse of fuels?



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**75.** Group discussion on misuse of fuel resource and its consequences.

What methods could you suggest to prevent the misuse of fuels?



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**76.** Can you suggest alternate ways to save the fuel resources?



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77. How is biodiversity affected by excessive use of fossil fuels?



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78. What is renewable source of energy?



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79. What is a non-renewable source of energy?



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**80.** Mention any four renewable sources of energy.



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**81.** Mention the non-renewable sources of energy.



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**82.** What is material science?



**Watch Video Solution**

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



**Watch Video Solution**

**84.** What is carbonisation?



**Watch Video Solution**

**85.** Name the petroleum products used for roads surfacing.



**Watch Video Solution**

**86.** What are Petrochemicals?



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**Watch Video Solution**

**92.** What is CNG? What is its use?



**Watch Video Solution**

**93.** What is the basic difference between coal and charcoal?



**Watch Video Solution**

**94.** What is biodiesel?



**Watch Video Solution**

**95.** Can coal, petroleum and natural gas be prepared in the laboratory from dead

organisms?



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**96.** Write a short notes on wind mills.



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**97.** What are exhaustible resources? Given example.



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**98.** What did our ancestors do with petroleum ?



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**99.** What is meant by fractional distillation?



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**100.** What is coal tar? How is it useful to us?



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**101.** What is coal gas?



**Watch Video Solution**

**102.** What is coke? How is it useful to us?



**Watch Video Solution**

**103.** What are alternative to natural gas?



**Watch Video Solution**

**104.** Why coal petroleum and natural gas are called fossil fuels?



**Watch Video Solution**

**105.** List out the natural resources which are limited and which are abundant and record them in table.

What actions are required to meet the future energy needs?





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**106.** List out the natural resources which are limited and which are abundant and record them in table.

What would be our future energy resources?



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**107.** Why "CNG" being used as a fuel for vehicles?



[Watch Video Solution](#)

**108.** How was coal formed?



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**109.** What are the harmful effects of burning fossil fuels? How it effect the environment?



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**Exercise**

1. What is coal tar? How is it useful to us?



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2. Explain the process of formation of petrol.



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3. What will happen if all the forests wer cut down?



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4. What is the difference between destructive distillation and fractional distillation?



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7. "Crude oil and refined fuel when spills into the sea from tanker of ships by accident".

Discuss the consequences of this on environment.



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8. Resources which are present in unlimited amount are called

- A. exhaustible
- B. inexhaustible
- C. fossil
- D. all of these

**Answer:**



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9. Natural resources which are present in limited quantity and which can be finished

A. exhaustible

B. inexhaustible

C. fossil fuels

D. all of these

**Answer:**



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## 10. Fossil fuel



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## 11. Pure form of carbon

A. coke

B. coal tar

C. coal gas

D. none of these

**Answer:**



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

A. synthetic dyes

B. drugs

C. explosives

D. all of these

**Answer:**



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**13.** Naphthalene balls obtained from

A. carbon

B. coke

C. coal tar

D. coal gas

**Answer:**



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**14.** Petroleum formed from

A. wild animals

B. organisms in sea

C. domestic animals

D. insects

**Answer:**



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15. Refining is

A. extracting petroleum

B. heating of coal

C. separation of various fractions of  
petroleum

D. sedimentation of fossil fuel

**Answer:**



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**16.** Fuel in a Jet Aircraft

A. petrol

B. diesel

C. kerosene

D. all of these

**Answer:**



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**17.** The major constituent of CNG is



A. methane

B. butane

C. pentane

D. hexane

**Answer:**



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**18.** Which one is ideal fuel relative to pollution?

A. Natural gas

B. Coral

C. Kerosene

D. Petrol

**Answer:**



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