



# CHEMISTRY

## NCERT - NCERT Chemistry(Telugu)

### COAL AND PETROLIUM

#### Exercise

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. Complete the given analogy : petrochemical



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4. Complete the given analogy

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



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5. Name the petroleum products used for roads surfacing.



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6. Explain the process of formation of petrol.



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7. 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

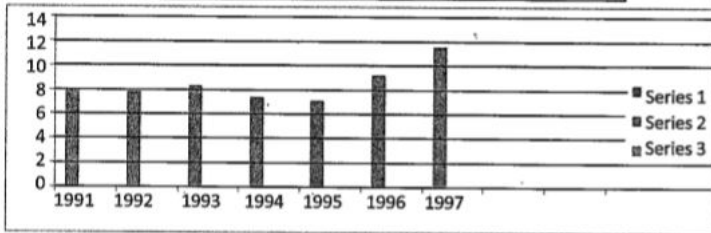
CHAPTER - 6

TBPSM

COAL AND PETROLEUM

VIII PHYSICAL SCIENCE

4.	1994	7.4
5.	1995	7.1
6.	1996	9.2
7.	1997	11.5



Explain.



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**8.** 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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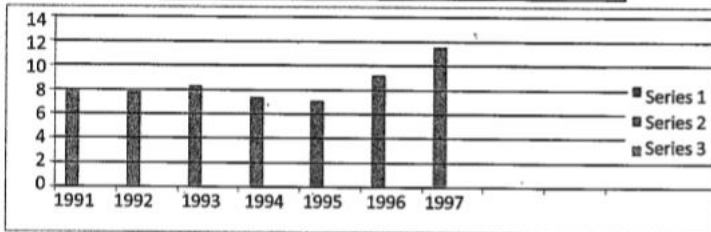
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VIII PHYSICAL SCIENCE

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Explain.



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



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**10.** 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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**11.** 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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**12.** Why should people look for alternative sources of fossil fuel?



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



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**14.** "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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**15.** "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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**16.** Will the above resources like fossil fuel be available for ever?



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17. Won't we ever run out of air? which type of resource?

- A. exhaustable resource
- B. in exhaustible resource
- C. artificial resource
- D. none

**Answer:**



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**18.** For what purpose do we need water in our life ?



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**19.** Can these resources be exhausted by human activities?



**Watch Video Solution**

**20.** Do we have unlimited supply of coal and petroleum?



**Watch Video Solution**

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



**Watch Video Solution**

**22.** How long do you think it would take to grow the forests again ?



**Watch Video Solution**

**23.** How long will the fossil fuel like petroleum be available ? Is it inexhaustible ?



**Watch Video Solution**

**24.** 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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**25.** What would be our future energy resources?



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**26.** 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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**27.** What actions are required to meet the future energy needs?



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**28.** Can you give some more examples where energy or fuel resources are misused in our dally life?



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



**Watch Video Solution**

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



**Watch Video Solution**

**31.** How is water distributed on the globe ?  
How much of fresh water is available to us ?



**Watch Video Solution**

**32.** How is water distributed on the globe ?

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**Watch Video Solution**

**33.** How is water distributed on the globe ?

How much of fresh water is available to us ?



**Watch Video Solution**

**34.** 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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**35.** IF  $\cos A = \frac{7}{25}$ , then find  $\sin A$  and  $\operatorname{cosec} A$ .

What do you observe?



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

What are the consequences of misuse of fuels?



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

What are the consequences of misuse of fuels?



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



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**41.** What is carbonisation?



**Watch Video Solution**

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



**Watch Video Solution**

**43.** What is coal gas?



**Watch Video Solution**

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



**Watch Video Solution**

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



**Watch Video Solution**

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



**Watch Video Solution**

**47.** What is material science?



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**48.** name three natural resources on the earth?



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**49.** What are exhaustive resources? Give two examples.



**Watch Video Solution**

**50.** What are inexhaustible resources ? Give examples.



**Watch Video Solution**

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

What are the consequences of misuse of fuels?



**Watch Video Solution**

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



**Watch Video Solution**

**53.** What liquid hydrogen is natural gas ? Why it has become an important fuel?



**Watch Video Solution**

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



**Watch Video Solution**

**55.** Draw a diagram showing existence of various fuels like natural gas-petroleum in

earth crust.



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**56.** What are the varieties of coal that differ in their uses ?



[Watch Video Solution](#)

**57.** What are the different uses of fuels in daily life.



[Watch Video Solution](#)

**58.** How is coal formed in the interior of the earth?



**Watch Video Solution**

**59.** What are the uses of coal tar?



**Watch Video Solution**



**60.** What are the petro-chemical products used for household (domestic) use?



**Watch Video Solution**

**61.** Can you give some more examples where energy or fuel resources are misused in our dally life?



**Watch Video Solution**

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



**Watch Video Solution**

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



**Watch Video Solution**

64. Why are coal and petroleum so versatile?



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

A. Natural gas

B. Coal

C. Kerosene

D. Petrol

**Answer:**



**Watch Video Solution**

**66.** The main constituent of coal is

A. Carbon

B. Oxygen

C. Air

D. Water

**Answer:**



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

A. Paraffin wax

B. Petrol

C. Diesel

D. Lubricant oil

**Answer:**



68. Which one of the following is an exhaustible source

A. Water

B. Air

C. Sunlight

D. Coal

**Answer:**



69. This is obtained from coal.

A. Petroleum

B. Diesel

C. Coal

D. None

**Answer:**



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70. Which one of the following is used in making roads

A. Coal gas

B. Coal tar

C. Coke

D. Lubricant oil

**Answer:**



**Watch Video Solution**



71. Which of the following is known as liquid gold ?

A. Coal gas

B. Paraffin wax

C. Petroleum

D. None

**Answer:**



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72. \_\_\_\_\_ is used in the manufacture of steel and extraction of many metals.

A. Petroleum

B. Gasoline

C. Coke

D. Coaltar

**Answer:**



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73. Which one of the fuel is advised for vehicles to reduce pollution

A. Diesel

B. Kerosene

C. Coal

D. CNG

**Answer:**



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74. Which of the following is not a greenhouse gas?

A. Oxygen

B. Hydrogen

C.  $CO_2$

D. CNG

**Answer:**



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75. How do you appreciate use of fossil fuels in daily life?

- A. Skin diseases
- B. Liver diseases
- C. Respiratory problems
- D. None

**Answer:**



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76. Name the compound obtained from petroleum used for reducing friction

A. Diesel

B. Lubricant oil

C. Kerosene

D. Wax

**Answer:**



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77. The materials required for making plastics

A. Coal

B. Petroleum

C. Wood

D. Wax

**Answer:**



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**78.** Fill in the blanks.

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



**Watch Video Solution**

**79.** Fill in the blanks.

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



**Watch Video Solution**



**80.** Fill in the blanks.

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



**Watch Video Solution**

**81.** Fill in the blanks.

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



**Watch Video Solution**

**82.** Fill in the blanks with correct answers :

when coal is fixed in plants

emits.....,....., and .....elements.



**Watch Video Solution**

**83.** Fill in the blanks with correct answers :

Fossil fuels are ..... and .....



**Watch Video Solution**

**84.** Which one of the following is less polluting fuel?



**Watch Video Solution**

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



**Watch Video Solution**

**86.** Fill in the blanks with correct answers :

Coke is used in .....



**Watch Video Solution**

**87.** Fill in the blanks with correct answers :

..... is used for roofing.



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**88.** Fill in the blanks with correct answers :  
.....was used in the construction of walls  
and towers.



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**89.** Fill in the blanks with correct answers :  
.....is not just an important fuel also used  
in making fertilizers and synthetic rubber.

A. nickel

B. nylon

C. natural gas

D. polythene

**Answer:**



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**90. Complete the given analogy : coal**



**Watch Video Solution**

**91.** Complete the given analogy

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



**Watch Video Solution**

**92.** Complete the given analogy :

petrochemical



**Watch Video Solution**

**93.** Complete the given analogy

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



**Watch Video Solution**

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



**Watch Video Solution**



**95.** 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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**96.** "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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97. Coke mainly consists of

A. Hydrogen and carbon

B. Carbon

C. Carbon and nitrogen

D. Carbon & Hydrogen

**Answer:**



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**98.** Write some eco - friendly activities.

A. Unleaded petrol

B. Diesel

C. CNG

D. None

**Answer:**



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99. Why petroleum is called black gold?

A. Anthracite

B. Lignite

C. Peat

D. Bituminous

**Answer:**



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**100.** Name the process by Which we separate other pproducts from petroleum

A. Refining

B. Distillation

C. Evaporation

D. Fractional distillation

**Answer:**



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101. A major component of Gobar gas is

A. Methane

B. Butane

C. Ethane

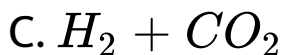
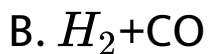
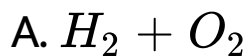
D. None

**Answer:**



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102. The main common constituent of producer gas and water gas is



D. None

**Answer:**



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103. The main constituent of coal is

A.  $H_2$ +CO+Methane

B. Methane+CO

C. Methane+Butane

D. None

**Answer:**



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**104.** Which is the residual during petroleum refining

A. Wax

B. Crude oil

C. Asphalt

D. Diesel

**Answer:**



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**105.** Name the petroleum product used in preparing cosmetics

A. Petroleum jelly

B. Diesel

C. Kerosene

D. None

**Answer:**



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**106.** Name the coal product used as reducing agent during iron extraction

A. Coke

B. Coaltar

C. Coalgas

D. None

**Answer:**



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**107. FILL IN THE BLANKS :** \_\_\_\_\_ is used in the manufacture of explosives TNT.



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**108. FILL IN THE BLANKS :** \_\_\_\_\_ is also known as soft coal.



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**109. The .....** which are used in air conditioners, refrigerators are responsible for

global warming.



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



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**111. FILL IN THE BLANKS :** Insufficient burning of coal liberates \_\_\_\_\_



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