



CHEMISTRY

BOOKS - S CHAND IIT JEE FOUNDATION

COAL AND PETROLEUM

Question Bank 16 Fill In The Blanks

1. Air, water and minerals are called___ resources because they are provided by nature and cannot be produced by human beings.



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2. Fossil fuels were formed millions of years ago from the remains of _____ and _____ when they remained buried under the earth.

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3. Fossil fuels are _____, _____ and _____

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4. The slow process of conversion of dead vegetation into coal is called _____.

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5. The process of heating coal in the absence of air is called _____.

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6. CNG is _____.

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7. Petrochemicals are the substances obtained from _____ and _____.

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8. The process of separation of different constituents from petroleum is called _____ .



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9. The burning of fossil fuels causes air _____ and also leads to global _____.



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Question Bank 16 Answer True Or False

1. Fossil fuels can be made in the laboratory.



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2. CNG is more polluting fuel than petrol.



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3. Coke is almost pure form of carbon.



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4. Coal tar is a mixture of various substances.



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5. Kerosene is not a fossil fuel.



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6. Sunlight and air are exhaustible natural resources.



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7. Wildlife and minerals are exhaustible natural resources.



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8. Petroleum is formed by the decomposition of dead aquatic plants and animals.



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9. Natural gas is not a good fuel because it produces lot of smoke and causes air pollution.



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10. India has vast reserves of Natural gas.



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Question Bank 16

1. Match the descriptions given in column A to the items given in column B to make correct statements:

Column A

- (1) Is known as 'black gold'
- (2) Used as a fuel in homes
- (3) A fraction of petroleum that is used in making candles.
- (4) It is the main constituent of LPG
- (5) The least polluting fuel for vehicles
- (6) Fuel for jet aircrafts
- (7) Thermal power station

Column B

- (a) Paraffin wax
- (b) Kerosene
- (c) Coal
- (d) CNG
- (e) Butane
- (f) Petroleum
- (g) LPG



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2. Which of the following is a fossil fuel?

A. Petroleum

B. Cow dung

C. Dry leaves

D. Wood

Answer: A



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3. Coal is formed by the process of

A. evaporation

B. distillation

C. carbonisation

D. vaporisation

Answer: C



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4. Which among the following varieties of coal possess the highest percentage of carbon?

A. Peat

B. Lignite

C. Bitumen

D. Anthracite

Answer: D



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5. Besides coal and petroleum, which among the following is also a fossil fuel?

A. Nitrogen

B. Natural gas

C. Hydrogen

D. Oxygen

Answer: B



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6. The solvent used for dry cleaning is one of the fractions of petroleum. It is

A. Lubricating oil

B. Kerosene

C. Diesel

D. Petrol

Answer: D



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7. The air pollution caused by burning of fossils is supposed to result in

- A. killing of germs
- B. water harvesting
- C. global warming
- D. lowering of temperature

Answer: C



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8. When an oil well is drilled through rocks, _____ comes out first.

A. marsh gas

B. coal gas

C. natural gas

D. gas carbon

Answer: C



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9. Petroleum is refined by:

- A. fractional distillation
- B. destructive distillation
- C. distillation
- D. all of these

Answer: A



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10. Water gas consists of

- A. water vapour and coal dust
- B. a mixture of carbon monoxide and hydrogen

C. a mixture of carbon monoxide and nitrogen

D. water vapour and methane

Answer: B



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11. Which of the following is not obtained on fractional distillation of petroleum?

A. Paraffin wax

B. Charcoal

C. Asphalt

D. CNG

Answer: B



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12. Fractional distillation is based on the property that

- A. density of each fraction is different
- B. molecular weight of each fraction is different
- C. melting point of each fraction is different
- D. boiling point of each fraction is different

Answer: D



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13. The environment friendly fuel among the following in our homes

A. coke

B. wood

C. LPG

D. coal

Answer: C



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14. A porous black substance used in the extraction of metals is

A. sodium

B. calcium

C. lead

D. coke

Answer: D



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15. Which of the following options is not correct?

Petroleum is obtained from oil wells in

A. Assam

B. Mumbai High

C. Punjab

D. Gujarat

Answer: C



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16. Which of the following is a petroleum product used to drive high vehicles?

A. Petroleum gas

B. Diesel

C. Kerosene

D. None of these

Answer: B



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17. Most of the fuels are

- A. carbon compounds with sulphur
- B. nitrogen compounds with hydrogen
- C. carbon compounds with hydrogen
- D. carbon compounds with oxygen

Answer: C

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18. Identify the incorrect statement among the following:

- A. CNG is the least polluting fuel
- B. Coke is almost pure form of carbon

C. Petroleum is a naturally occurring oil found beneath the earth and under the the sea bed

D. Besides road surfacing, bitumen is also used in making perfumes

Answer: D



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19. An ideal fuel used in the manufacture of glass and steel is

A. LPG

B. Gobar gas

C. Coal gas

D. Kerosene

Answer: C



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Question Bank 16 Answer The Questions

1. Name any two products obtained from petrol refining.



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2. Name the petroleum product used for surfacing of roads.

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3. Explain why fossil fuels are exhaustible natural resources.

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4. Describe characteristics and uses of coke.

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5. How is coal tar formed?



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6. What is meant by natural resources?



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7. What are the two classes of natural resources?



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8. Write down any four amorphous forms of carbon.



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9. What is LPG? Mention its main component. Why is a smelling agent added to it?



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10. What is CNG? Give two uses of CNG. State the advantages of using CNG.



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11. Why do we use coke for making steel and not coal?



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12. Describe characteristics and uses of coke.



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13. How is 'petrol' related to petroleum? Name four most important products obtained from petroleum.



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14. What is meant by fractional distillation? State the principle on which it is based.



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15. Why is LPG considered a good fuel?



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16. Describe how coal was formed. What is this process called?



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17. It is necessary that we use the exhaustible sources of fuels judiciously. Comment on this statement.

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Self Assessment Sheet 16 Fill In The Blanks

1. LPG is petroleum gas liquefied under _____.

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2. The separation of petroleum into different fractions is done by the process of _____.

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3. Petroleum is extracted by _____ in the earth's crust where the survey predicts presence of oil.

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4. Petroleum is a complex mixture of compounds known as _____.

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5. Coal gas, coal tar and coke are all products of _____.
These are all obtained by heating coal in the _____ of air.

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6. The slow process by which the dead plants buried deep under the earth have become coal is called _____.

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7. _____ fuels were formed from the dead remains of living organisms buried under the earth millions of years ago.

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8. Due to the tremendous commercial importance of petroleum and its use in our life, it is called _____.



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Self Assessment Sheet 16 Answer True Or False

1. Sunlight, air and water are exhaustible natural sources of energy.



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2. Petroleum is formed by the decomposition of dead aquatic animals and plants.



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3. Coal and petroleum can be made in the laboratory from dead organisms.



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4. Natural gas is formed below the earth's surface. It exists above the petroleum.



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5. Natural gas is heavier than air.

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6. Fossil fuels cause air pollution and global warming.

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7. Oil wells are found in Rajasthan and Punjab.

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8. Petroleum Conservation Research Association (PCRA) is the agency which advises people how to save petrol/diesel while driving vehicles.



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Self Assessment Sheet 16

1. The slow process of conversion of dead vegetation into coal is called

A. carbonisation

B. oxidation

C. decomposition

D. distillation

Answer: A



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2. Which of the following are the constituents of petroleum?

A. Diesel, paraffin

B. CNG, Coal tar

C. Coal tar, bitumen

D. Kerosene, coal gas

Answer: A



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3. Which petroleum product is used for road metalling the roads?

- A. Coal tar
- B. Natural gas
- C. Bitumen
- D. Both (a) and (b)

Answer: C



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4. Full form of CNG is

- A. Composed Natural Gas
- B. Combined Natural Gas
- C. Compound Natural Gas
- D. Compressed Natural Gas

Answer: D



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5. Which petrochemical is used for making ointment and vaseline?

A. Petrol

B. Diesel

C. Kerosene

D. Paraffin wax

Answer: D



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6. It is the least polluting fuel for vehicle

A. CNG

B. Natural gas

C. Diesel

D. Petrol

Answer: A



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7. Coal, Petroleum and Natural Gas are

A. Fossil fuels

B. Compressed Natural Gas

C. Crude Oil

D. LPG

Answer: A



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8. During the fractional distillations of crude oil :

A. the low boiling fractions condense first

B. the high boiling fractions condense first

C. the low boiling fractions remain in the column

D. the high boiling fractions condense later

Answer: B



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9. The process of separation of various fractions of petroleum is known as:

- A. Segregation
- B. Refining
- C. Decomposition
- D. Dissociation

Answer: B



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10. A hydrocarbon is

- A. a compound containing carbon, hydrogen and oxygen
- B. is sodium hydrogenated carbonate
- C. a compound containing carbon and hydrogen only
- D. a derivative benzene

Answer: C



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