



CHEMISTRY

BOOKS - VGS PUBLICATION-BRILLIANT

COAL AND PETROLEUM

Exercise

1. Explain why petroleum is also called as liquid gold.



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2. Name the petrochemical products which are used in agriculture industry.



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3. Explain the process of formation of petrol.



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



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5. Name the petroleum products used for roads surfacing.



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



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



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



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11. "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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12. Which one of the following is less polluting fuel?

A. Natural gas

B. Coal gas

C. Kerosene

D. Petrol

Answer:



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13. The main constituent of coal is

A. 1. Carbon

B. 2. Oxygen

C. 3. Air

D. 4. Water

Answer:



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

- A. 1. Paraffin wax
- B. 2. Petrol
- C. 3. Diesel
- D. 4. Lubricating oil

Answer:



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15. Which of the following is not a fossil fuel

A. Coal

B. Petroleum

C. Charcoal

D. Natural gas

Answer:



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

A. Kerosene

B. Diesel

C. Petroleum

D. Paraffin wax

Answer:



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17. 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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18. Burning fuels releases carbon dioxide, a green house gas, which causes climate changes and leads to global warming. Collect information about this through newspapers, magazines, etc. and prepare a report.



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19. Compare a CNG run vehicle with that of a diesel run vehicle. What difference do you notice in both cases with respect to pollutants released, level of pollution and cost of fuel.



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20. Choose five families of your neighbourhood, collect the information about the measures that they adopt to conserve

energy resources in transport and cooking.

Make a report on your observation.



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21. What will happen if fossil fuels like coal and petroleum are completely exhausted?



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22. What would be our future energy resources?



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23. Are the fossil fuel resources available sufficiently to meet the future energy needs?



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24. Write different constituents of petroleum and their uses.



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25. Will the above resources like fossil fuel be available for ever?



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26. Won't we ever run out of air ?



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27. Won't we ever run out of water?



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28. Can these resources be exhausted by human activities?



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29. Do we have unlimited supply of coal and petroleum?



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30. What will happen if all the forests are cut down and the wood is used for various purposes?



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



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



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33. What actions are required to meet the future energy needs?



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34. How are fuels like coal and petroleum formed ?



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



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



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



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38. What are exhaustible resources? Given example.



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39. What are inexhaustible resources ? Give examples.



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40. When and where was petroleum first used?



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41. What did our ancestors do with petroleum
?



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42. What is biodiesel?



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43. How would you prepare biodiesel ?



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44. What is biodiesel used in ?



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45. What is the basic difference between coal and charcoal?



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46. What is meant by fractional distillation?



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47. What is carbonisation?



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



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49. What is coke? How is it useful to us?



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50. What are the uses of coke ?



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



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52. What are the uses of coal tar?



[Watch Video Solution](#)

53. What is coal gas?



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54. What are the uses of coal gas ?



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55. What are Petrochemicals?



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56. What are the uses of petrochemicals?



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57. Explain why petroleum is also called as liquid gold.



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58. What are alternative to natural gas?



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59. For which purposes are we using fresh water?



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60. What is natural gas?



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



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62. Expand LPG, CNG, ONGC.



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63. Write any two uses of petrochemicals in our daily life.



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64. It is necessary to save the energy resources like petroleum and natural gas. Write a slogan

about this to create awareness among people.



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65. Petroleum is separated into its components is



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66. Write any two uses of Activated Carbon in our daily life.



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



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68. 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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69. "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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70. What is biodiesel?



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71. What is biodiesel?



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72. Why does the price of petrol go up all the time ?



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73. Why are coal and petroleum so versatile?



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74. What is natural gas?



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75. What are the advantages of grafting?



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76. Ramu told Rahim that solar energy is inexhaustible resource. Then what are the

questions raised in the mind of Rahim about solar energy ?



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77. What is meant by Natural gas ?



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78. What are the uses of coke ?



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79. Explain the process of formation of petrol.



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80. Name the petroleum products used for roads surfacing.



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81. What is coal gas?



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82. Fossil fuel



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



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84. Write the role of Fungi in our daily life.



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



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86. What is coal gas?



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87. Explain the process of formation of coal.



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88. Draw a diagram showing existence of various fuels like natural gas-petroleum in earth crust.



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89. Write any two uses of petrochemicals in our daily life.



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90. What are the advantages of using CNG and LPG as fuels ?



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91. Process of conversion of dead vegetation into coal is called



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



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93. Write different constituents of petroleum and their uses.



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94. Why petroleum is called black gold?

A. Coal

B. Petroleum

C. Natural gas

D. None of these

Answer:



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95. _____ gas obtained during the processing of coal to get coke.

A. 1. Coal

B. 2. LPG

C. 3. CNG

D. 4. None of these

Answer:



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96. In a coal fired power plant electrostatic precipitators are installed to control emission of

A. Magnesium

B. Aluminium

C. Mercury

D. Silicon

Answer:



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97. Among the following inexhaustible source of energy is

- A. 1. Coal
- B. 2. Solar energy
- C. 3. Petroleum
- D. 4. Natural gas

Answer:



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98. _____ is a mixture of 200 substances.

- A. 1. Coal
- B. 2. Coal gas
- C. 3. Carbon
- D. 4. Coal tar

Answer:



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99. CNG stands for

- A. Condensed natural gas
- B. Compressed natural gas
- C. Complete natural gas
- D. Condemned natural gas

Answer:



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100. Pure form of carbon

A. Coal

B. Charcoal

C. Lamp black

D. Coke

Answer:



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101. _____ use wind energy to produce current.

A. Panels

B. Wind guage

C. Wind mill

D. None of these

Answer:



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102. When coal burns in air _____

A. Carbon monoxide is formed

B. Oxygen is formed

C. Sulphur dioxide is formed

D. Carbon dioxide is formed

Answer:



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103. Naphthalene balls obtained from

A. Coal

B. Coal gas

C. Coal tar

D. None of these

Answer:



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104. Why do we call coal and petrol are exhaustible resources?

- A. *A*. They are limited in stock
- B. *B*. They cannot produce immediately
- C. *C*. They emits pollution
- D. *D*. Both A and B

Answer:



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105. What will happen if there are no petrol and coal?

- A. All the vehicles, now available, will become useless
- B. Thermal power plants will shut down
- C. Transportation charges will increase.
- D. Above all

Answer:



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106. Petrochemicals are separated by

A. Distillation

B. Evaporation

C. Sublimation

D. Fractional distillation

Answer:



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107. Process of conversion of dead vegetation into coal is called

A. Hydrogenation

B. Calcination

C. Carbonisation

D. Oxidation

Answer:



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108. Separation of petroleum products from petroleum is called _____

A. Refinery

B. Distillation

C. Poling

D. Liquification

Answer:



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109. Metals are extracted from

A. Petrochemicals

B. Dried up trees

C. Sand

D. Ores

Answer:



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110. More pollutant among fossil fuels is

A. Coal

B. Petroleum

C. Natural gas

D. None of these

Answer:



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111. _____ balls repel moths and other insects.

A. Benzene

B. Naphthalene

C. Anthracene

D. Acetone

Answer:



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112. _____ is exhaustible source among these.

A. Solar energy

B. Wind energy

C. Tidal energy

D. Natural gas

Answer:



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113. _____ is used for extraction of metals.

A. Coal

B. Coke

C. Coal tar

D. Coal gas

Answer:



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114. This is not a product of petroleum

A. Candle

B. LPG

C. Petrol

D. Napthalene

Answer:



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115. solar energy is an example for _____
type of energy resource.

A. Natural

B. Renewable

C. Non Renewable

D. Both A and B

Answer:



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

A. Petrol

B. Coal

C. Petroleum

D. Kerosene

Answer:



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117. Select the incorrect statement from the following

A. Coal is formed due to carbonization

B. LPG is better fuel than CNG

C. Petroleum formed by plankton

D. Petrochemicals have various uses

Answer:



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118. These microbes which produce petroleum are appreciable

A. Plankton

B. Dengue

C. Sea animal

D. Starfish

Answer:



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119. Exhaustible fuel among the following

A. Solar energy

B. Wind energy

C. Coal

D. Tidal energy

Answer:



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120. Solar energy _____ source of energy

- A. Exhaustible
- B. Inexhaustible
- C. Both
- D. None of these

Answer:



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

- A. Fossil
- B. Natural
- C. Artificial
- D. None of these

Answer:



122. _____ is used in the manufacture of steel and extraction of many metals.

A. Nickel

B. Cobalt

C. Zinc

D. Coke

Answer:



123. _____ is used for lighting

A. Coal

B. Coke

C. Coal tar

D. Coal gas

Answer:



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124. This product of coal protects our clothes from moths and insects

A. Naphthalene

B. Vaseline

C. Wax

D. Paints

Answer:



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125. Global warming is caused by

A. O_2

B. CO_2

C. N_2

D. H_2O

Answer:



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126. Coal-fired powerplants (thermal power plants) emit

A. Mercury

B. Selenium

C. Arsenic

D. Above all

Answer:



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127. Which of the following is not harmful to our health ?

- A. Solar power stations
- B. Thermal power station
- C. Hydrel power stations
- D. Both A and C

Answer:



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128. This is not a product of paraffin wax

A. Face cream

B. Grease

C. Candle

D. Plants

Answer:



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129. This is a renewable and non-toxic fuel

A. Bio fuel

B. Petroleum fuel

C. LPG

D. Above all

Answer:



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130. Complete the given analogy

Carbon Dioxide:Global warming::_____ :Nausea

- A. Sulphur dioxide
- B. Toxic substances from paints
- C. Oxygen
- D. Hydrogen

Answer:



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131. Which of the following is Gas fuel

A. LPG

B. Petrol

C. Coal

D. Diesel

Answer:



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132. Among the following inexhaustible source of energy is

- A. Only (i)
- B. i And (iii)
- C. (I), (ii) and (iii)
- D. (i),(ii) and (iv)

Answer:



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133. Which of the following is not obtained by fractional distillation of coal tar

A. Naphthalene

B. Dyes

C. Sugar

D. Pesticides

Answer:



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134. Take a hard boiling tube and fill it with coal. Arrange a rubber cork and pass delivery tube through rubber cork,

Q) Brownish black colour gas released from test tube

R) Take a boiling tube and fill it with water.

S) We can observe the white flame at the mouth of test tube.

The correct sequence of arranging the apparatus.

A. Q-R-S-P

B. P-R-S-Q

C. P-S-Q-R

D. P-Q-R-S

Answer:



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135. Write the precautions to be taken in conducting an experiment showing the burning of gas released by heating a high quality coal. A) test tubes must be very hard, b)

maintain distance from bunsen burner,c) heat the test tube by keeping in hand.

A. A and b only

B. A and c only

C. A,b, and c only

D. A only

Answer:



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136. Petrochemical which is used in our daily life and which is not very harmful?

A. LPG

B. Kerosene

C. Diesel

D. Coaltar

Answer:



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137. Petrochemicals are obtained by the fractional distillation of 'petroleum. Different compounds are formed at different temperatures. The first product obtained from petroleum is kerosene Asphalt is the residue'formed in fractional distillation. We also can get petrol, diesel, etc. from petroleum. Name the first compound formed from petroleum.

A. Diesel

B. Kerosene

C. Asphalt

D. Petrol

Answer:



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138. Petrochemicals are obtained by the fractional distillation of 'petroleum. Different compounds are formed at different temperatures. The first product obtained from petroleum is kerosene Asphalt is the

residue formed in fractional distillation. We also can get petrol, diesel, etc. from petroleum. Name the first compound formed from petroleum.

A. Diesel

B. Petrol

C. Asphalt

D. Kerosene

Answer:



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139. Among the following inexhaustible source of energy is

A. CNG gas

B. Petroleum

C. Wind power

D. Coal

Answer:



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140. A) Using driver in washing machine to dry the clothes even when sunlight is present. B) Using petrol likes for a shorter distance without walking. The above two-sentences indicate

A. Using alternate energy sources

B. Using energy sources

C. Misusing energy sources

D. Using petrochemicals

Answer:



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141. Compounds obtained from petrochemical coal are

- A. Coke, Coal tar, Coal gas
- B. Coal tar, Kerosene, Coke
- C. Coke, Coal gas, Petrol
- D. Diesel, Coke, Coal gas

Answer:



142. Generally petrochemicals are harmful to environment. Name the petrochemical which is not harmful.

A. Petroleum

B. Natural gas

C. Wood

D. Coal

Answer:



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143. Which among the following is not a petrochemical?

A. Vaseline

B. Ointment

C. Conical flasks

D. Tyre

Answer:



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144. Petroleum is a fossil fuel and is a non renewable source. Which among the following indicates the proper utilisation of fuels ?

a) Minimising the misuse of fuels.

b) Stop using the utilisation of non -renewable sources.

c) Developing alternate resources of fuels.

A. 1. A and b

B. 2. A and c

C. 3. A,b and c

D. 4. A only

Answer:



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