PHYSICS

BOOKS - MBD NCERT SOLUTIONS

SOURCE OF ENERGY

Example

1. What is good source of energy ?

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2. What is a good fuel ?

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3. What are the characteristics of an ideal fuel?

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4. Write any three characteristics of a good fuel.

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5. Give two characteristics of ideal fuel.

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6. If you could use any source of energy for heating your food, which one would you use and why ?

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7. What are the disadvantages of fossil fuels ?

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8. Why are we looking at alternate sources of energy ?

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9. How has the traditional use of wind and water energy been modified for our

convenience ?

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10. What kind of mirror-concave, convex or plane-would be best suited for use in a solar cooker ? Why ?

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11. What are the limitations of enegry that can be obtained from the oceans ?

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12. What is energy?

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13. What are the advantages of unclear energy?

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14. Can any source of energy be pollution-free ? Why or why not ?

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15. Name two energy sources that you consider pollution free,give reason

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16. Hydrogen has been used as a rocket fuel. Would you consider it a cleaner fuel CNG ? Why or why not ?

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17. Name two energy sources that you would consider to be renewable. Give reasons for your choices.

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18. Give the names of two energy sources that you would consider to be exhaustible. Give reasons for your choices.

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19. A solar water heater cannot be used to get hot water on :

A. sunny day

B. cloudy day

C. hot day

D. windy day

Answer:

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20. Which of the following is not an example of bio-mass energy source ?

(a) wood

(b) gobar gas

(c) atomic energy

(d) coal.

A. wood

B. gobar gas

C. atomic energy

D. coal

Answer:

21. Most of the sources of energy we are represent stored solar energy. Which of the

following is not ultimately derived from the sun's energy

A. goethermal energy

B. wind energy

C. nuclear energy

D. bio-mass

Answer:

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22. Compare and contrast fossil fuels and the sun as sources of energy.

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23. Compare and contrast bio-mass and hydro-electricity as sources of energy.

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24. What are the limitations of extracting enegry from :

(a) the wind

(b) waves

(c) tides ?

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25. What are the limitations of extracting enegry from :

(a) the wind

(b) waves

(c) tides ?

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26. What are the limitations of extracting enegry from :

(a) the wind

(b) waves

(c) tides ?

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27. On what basis would you classify energy sources as :

(a) renewable and non-renewable ?

(b) exhaustible and inexhaustible ?

Are the options gives in (a) and (b) the same ?

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28. On what basis would you classify energy sources as :

(a) renewable and non-renewable ?

(b) exhaustible and inexhaustible ?

Are the options gives in (a) and (b) the same ?

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29. What are the qualities on an ideal source of energy ?

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30. What are the disadvantages of using a solar cooker ? Are there places where solar

cookers would have limited utility ?

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31. What are the environmental consequences of the increasing demand for energy ? What steps would you suggest to reduce energy consumption ?

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32. Draw a labelled diagtram of a box type solar cooker,also give its working and advantages

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33. With the help of a labelled diagram,describe how electricity is gnerated in a nuclear power plant?

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34. Describe a wind mili and give its functions?

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35. What is a solar cell? What is its working principle? Write short note on the making of solar cells and also give its uses.

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36. What is solar cell panel?describe with the help of a suitable diagram.

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37. How is solar panel prepared?explain with diagram

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38. What is nuclear fission?Explain this phenomenon with the help of an example

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39. What is nuclear fusion?explain this phenomenon with the help of an example

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40. Describe the process by which energy is released by the sun.

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41. Introduction to nuclear reactions | Nuclear fission and Nuclear fusion

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42. What are fossils ?

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43. What are fossil fuels?What will happen if fossil fuels are use up at a fast rate?give reasons for your answer.

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44. Why is L.P.G.considered an ideal fule?

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45. State the advantages of the nuclear fusion reactions over nuclear fission reactions.also state one disadvantage.

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46. How is hydroelectricity generated at hydroelentirc power plant? Give its advantages and disadvantaes?

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47. What is biogas? Give any four uses?

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48. Give two reasons for using gobar (cow dung) in biogas plant.

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49. Write the general principle involved in generating nuclear energy, Name on fuel used in a nuclear reactor.

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50. What is natural gas? What are its advantages over other fuels?

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51. Why burning firewood in traditional chulhas is not considered advantageous?

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52. Explain LPG.What are its uses?

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53. Explain why: Solar cookers are covered with glass plate.

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54. Why is the box of a solar cooker painted black from inside ?

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55. Write any two limitations of solar heating devices.

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56. Why is it not possible to use solar cell panels to meet all our domestic energy needs ?

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57. Write four areas where solar cell is used as source of energy?

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58. Hydrogen has the highest calorific value, but it is not used as a fuel. Why?

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59. What is wind mill? Write its two advantages?

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60. On what basis would you classify energy sources as :

(a) renewable and non-renewable ?

(b) exhaustible and inexhaustible ?

Are the options gives in (a) and (b) the same ?

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61. On what basis would you classify energy sources as :

(a) renewable and non-renewable ?

(b) exhaustible and inexhaustible ?

Are the options gives in (a) and (b) the same ?

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62. What are fossil fuels?How are they formed? why are they non-renewable sources of energy?

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63. What is greenhouse effect?Explain in detail

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64. Differentiate between renewable and non-renewable sources of energy with one example for each.

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65. Oceans are vast store of energy" justify this statement

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66. What is meant by ocean thermal energy

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67. What are solar reflectors and solar concentrators?

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68. What are the constituents of coal gas ? State one use of coal gas.

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69. Give two examples of each : Fossil fuel

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70. What is the range of temperature which can be achieved in a box-type solar cooker in two to three hours ?

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71. Name the device which directly converts solar energy into electrical energy.

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72. What is biogas?

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73. What are the main constituents of biogas?

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74. Name the main component of biogas?

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75. What type of energy is possessed by huge waves near the seashore?

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76. What is tidal energy ? How is it harnessed ?

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77. Define energy?

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78. Define kinetic energy. Give its units and dimensional formula.

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79. What are fossils fuels ? Name any three fossil fuels.

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80. SOLAR ENERGY

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81. What is calorific value of a fuel? Write its units.

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82. Name the constitutents of biogas.

Watch Video Solution

83. Name any two materials used for making of solar cells.

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84. WIND ENERGY

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85. What is biomass? Write its uses

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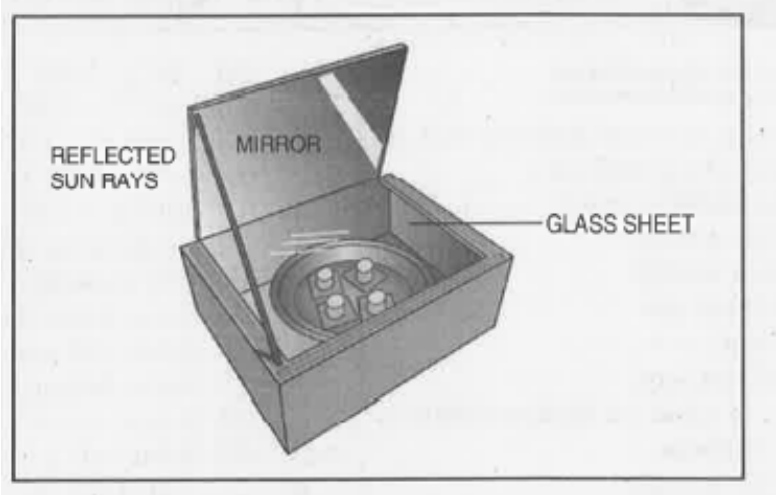
86. Which type or mirror is most suitable in the device shown in figure below?



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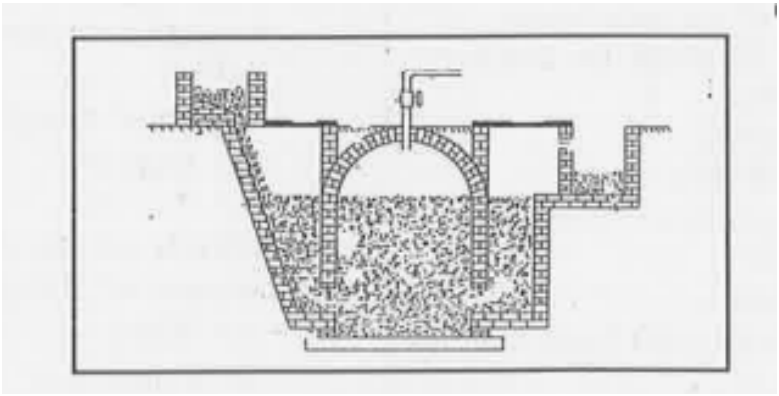
87. Name the device shown in the given diagram.What is being prepared in it?



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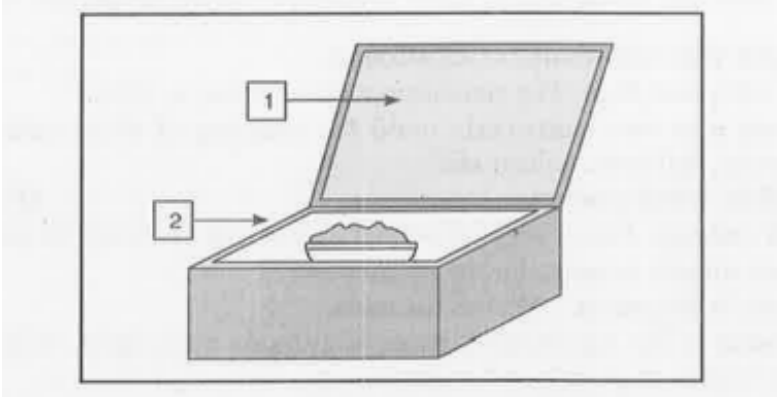
88. Label 1 and 2 in the given figure.



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89. Non-renewable source is

A. solar energy

B. wind energy

C. natural gas

D. water

Answer:

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90. .....Is used in hydro-electric power station

A. wind energy

B. energy of running water

C. energy produced from burning coal

D. all of these

Answer:

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91. .....is used in thermal power station.

A. wind energy

B. energy of running water

C. energy produced from burning fossil fuel

D. all of these

Answer:

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92. The temperature range of box type solar cooker kept in the sun for 2-3 hours will be.....

A. $60^\circ C - 80^\circ C$

B. $80^\circ C - 100^\circ C$

C. $100^\circ C - 140^\circ$

D. $140^\circ - 180^\circ C$

Answer:

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93. .....converts solar energy into electric energy

A. solar energy

B. solar cell panel

C. solar furnace

D. solar cooker

Answer:

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94. .....is used in making solar cell

A. carbon

B. silicon

C. sodium

D. cobalt

Answer:

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95. A device that converts electric energy into mechanical energy.

A. solar cooker

B. solar cell panel

C. engine

D. all the above

Answer:

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96. Which of the following is not an example of bio-mass energy source ?

(a) wood

(b) gobar gas

(c) atomic energy

(d) coal.

A. wood

B. gobar gas

C. coal

D. nuclear energy

Answer:

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97. Which one of the following is not a fossil fuel?

A. coal

B. wood

C. coke

D. kerosene

Answer:

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

A. wind energyq

B. sun

C. fossil fuel

D. water

Answer:

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99. The main source of energy is ..... .

A. sun

B. water

C. uranium

D. fossil fuel

Answer:

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100. Slurry obtained from biogas plant contains maximum quantity of..... .

A. sulphur phosphorus

B. carbon,sodium

C. nitrogen, oxygen

D. phosphorus,nitrogen

Answer:

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101. Which of the following countries is known as the country of wind?

A. india

B. italy

C. france

D. denmark

Answer:

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102. The combination of solar cells is called.....

.

A. solar panel

B. solar band

C. solar circle

D. solar plate

Answer:

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103. The element used in manufacturing solar cells is.... .

A. copper

B. tungsten

C. sulphur

D. silicon

Answer:

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104. The vast source of energy on the earth is .....

A. wood

B. coal

C. sun

D. moon

Answer:

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105. Natural gas is mainly made up of a gas called_____.

A. methane

B. ethane

C. propane

D. pentane

Answer:

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106. A solar water heater cannot be used to get hot water on :

A. sunnyday

B. cloudy day

C. hot day

D. windy day

Answer:

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107. Which one of the following energies are freely available?

A. Bio gas

B. Sunlight

C. Water gas

D. Hydrogen

Answer:

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108. Can the following change be reversed?

Making biogas from cow dung

A. water

B. oxygen

C. cargbon dioxide

D. hydrogen

Answer:

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109. A non-renewable source of energy is :

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110. Sun produces large amounts of heat and light energy in its core through ___ reaction.

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111. Coal and petrolem are called.....fuels.

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