



CHEMISTRY

NCERT - NCERT Chemistry(TELUGU)

SYNTHETIC FIBRES AND PLASTICS

Example

1. Explain why some fibres are called synthetic?



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2. Give reasons why plastic containers are used as storage devices?



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3. Classify following material which can be, cannot be recycled? Plastic toys, electrical switches, plastic chairs, carry bags, tumblers, tooth brush plastic chapels, plastic plates, plastic buckets.



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4. If electric swithes are made by thermoplastics what would happens?



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5. Thermoplastics are eco friendly then thermosetting plastics. What do you say Why?



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6. Explain following.

Blending



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7. Explain following.

Biodegradable



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8. Explain following.

Recycling



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9. Explain following.

Decomposition



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10. Fill in the blanks.

Synthetic fibres are also called as.....fibres.



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11. Fill in the blanks.

Synthetic fibres are synthesized from raw material called.....



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12. Fill in the blanks.

Like synthetic fibre, plastic also.....



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13. Fill in the blanks.

Clothing labels are.....

- A. Required by law
- B. Identify fabric content
- C. Both a and b

D. None of the above

Answer:



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14. Fill in the blanks.

Rayon is made of.....

A. Coal

B. Oxygen

C. Flax

D. Cellulose

Answer:



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15. Fill in the blanks.

A silk fibre's smoth absorbs light.....

A. Yes

B. No

C. Can't say

D.

Answer:



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16. Where do we use the process of recycling?

How is it useful? Give examples.



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17. What is the difference between natural fibres and artificial fibres?



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18. Identify household articles made up of natural and synthetic fibre.



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19. What are the merits and demerits of nylon clothes?



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20. Where do we find rayon factories in our state?



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21. How do we prepare rayon?



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22. What are polymers?



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23. Should the handle and bristles of tooth brush be made of same material? Explain.



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24. Write five uses of synthetic fibres other than making cloth.



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25. What are the articles made up of nylon?



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26. What will happen, if we use cotton ropes in preparing parachutes?



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27. What made the human beings to search for the alternative for natural fibres?



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28. Which fibres source material is not exhaustible? Why?



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29. Take hair, wool, silk, paper, cotton thread, piece of plastic, thread of sweater, piece of rope and carefully conduct a flame test. Based on smell and type of melting, classify them as natural or artificial fibres.



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30. How do you test 'Bakelite' plastic?



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31. Prepare a table of various synthetic fibres which are used to make household articles from them?



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32. Nylon sarees are much better than cotton sarees. Why?



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33. Firemen wear dress which does not catch fire. How is it possible?



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34. Collect various plastic objects from your surroundings and separate them as coded or the containers, water bottles, soft drink bottles, kitchenware, non-stick pan.



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35. If we burn PET bottle, the result may be



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36. What is the different between washing of clothes at home and washing by dry cleaning?



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37. Explain the differences between thermoplastics and thermosetting plastics

with the help of a diagram explaining interms of arrangements of monomers.



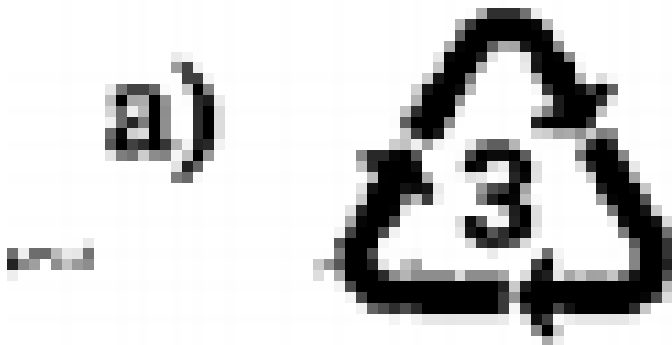
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38. Prepare a chart which can explain recycling codes, full names and acronym of. plastic and its usage for various household articles, recycled or not, if recycled what will be made from that ?



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39. What information do the following symbols give on plastic bottles?

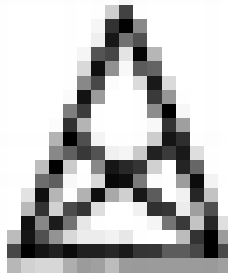
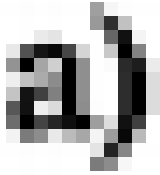


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40. What is the universal recycle symbol?

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41. What do the following symbols show?



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42. How much time takes to degrade the following?

Wood



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43. Introduction of synthetic fibres in the textile industry brought revolutionary change across the world in the dressing patterns irrespective of culture and customs. How do you appreciate this ?



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44. Explain *4R* Principle for creating eco-friendly environment.



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45. Plastic bags are more dangerous than atom bomb for future generations. Comment on it.



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46. Make a list of occasions where you can avoid plastic and use alternatives.



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47. How synthetic fibres changed our everyday life?



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48. Nibha wants to buy clothes to parents for winter wear. What type of clothes would you suggest? Specify reasons.



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49. If plastic is not properly disposed, what could be the consequences?



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50. Indiscriminate usage of plastic is a serious threat to bio-diversity, What are the efforts of Government and Non-Government organizations in this regard?



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51. Identify household articles made up of natural and synthetic fibre.

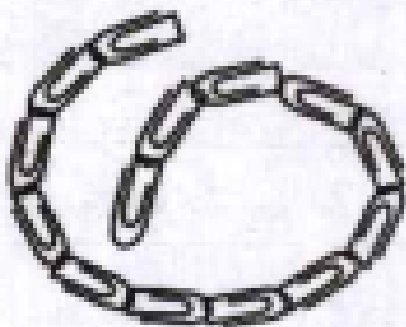


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52. Beads and paper clips pattern

Do you find any similarity between the pattern of beads in necklace and the pattern of paper

clips in the chain.



Paper clips chain



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53. What happens if small unit of chemical substance is combined together ?



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54. How do we obtain synthetic fibres?



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55. Beads and paper clips pattern

What are the source of synthetic fibres?



Paper clips chain



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56. Identifying fibres burining test:

If it smells like burining hair, what is the yarn?



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57. Identifying fibres burining test:

If it smells like burining paper, what is the yarn?



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58. Identifying fibres burining test:

If the yarn melts in the flame, what is the yarn?



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59. How strong in nylon?



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60. Arrange the threads in the order of increasing strength.



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61. Do you know that if you compare nylon thread with a steel wire of same thickness. Nylon will be as strong as steel wire?



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62. Why do we combine fibres? What is this process called?



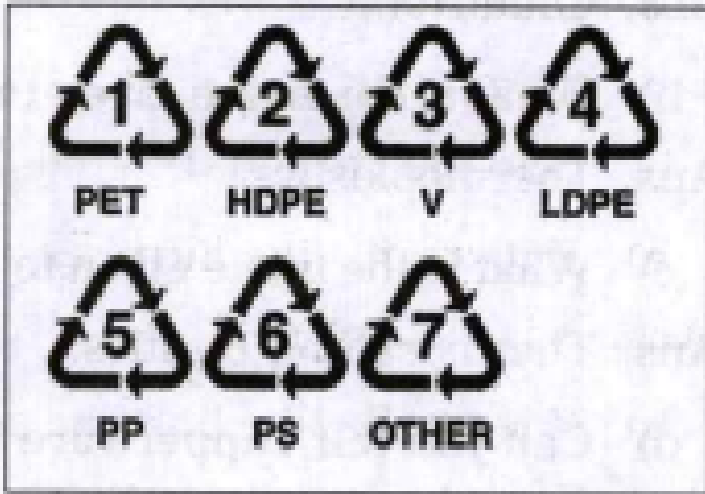
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63. How can you say a bottle is PET Bottle?

Collect different kinds of water bottles of your classmates and look at them carefully.

What number is marked in the center of the

triangle?



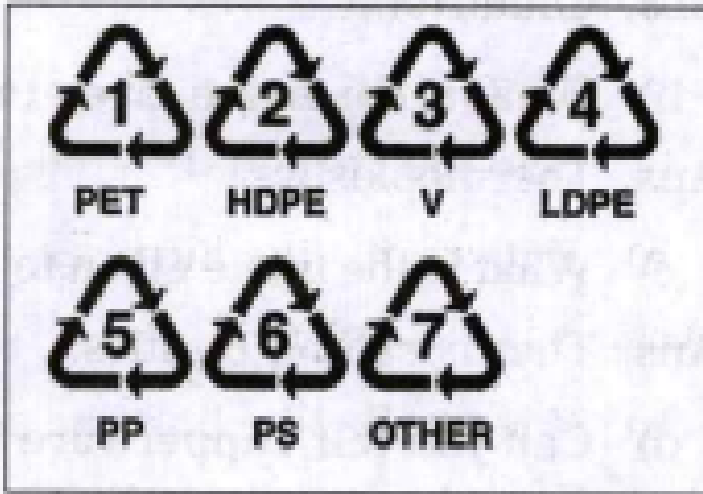
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64. How can you say a bottle is PET Bottle?

Collect different kinds of water bottles of your

classmates and look at them carefully.

What number is marked in the center of the triangle?



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65. Identification of various articles with recycling codes.





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66. Identification of various articles with recycling codes.



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67. What is the use of recycling codes in plastics ?



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68. What code is observed for soft drinks and juices ?



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69. Identification of various articles with recycling codes.



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70. Types of plastics. Let us take two bottles made up of plastic. One is Tupperware and

another ordinary. Pour some hot water in both. What do you notice?



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71. What is the code of the deformed bottle ?



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72. What is the name given to plastics which are deformed easily on heating?



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73. What is the name given to plastics which are molded once can't be softened by heating?



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74. Can you tell Tupperware is thermosetting plastic or thermo plastic?



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75. Identify whether given plastic material is thermoplastic or thermosetting plastic by using flame test.



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76. Biodegradable-Non biodegradable: Let's take peels of fruits and vegetables, left over food stuff, waste paper, cotton cloth and plastic bag. Keep this material in a pit. Open the pit after some days and list the material

which remain a long time and those that disappear quickly.



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77. What is the name given to certain material which can be break down into smaller fragments in the presence of water, sun light and oxygen and by bacteria?



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78. What do we call the material which are not decomposed by natural process?



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79. What made the human beings to search for the alternative for natural fibres?



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80. Which fibres source material is not exhaustible? Why?



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81. How synthetic fibres evolved to the present position?



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82. What will happen, if we use cotton ropes in preparing parachutes?



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83. Traditionally fishermen used cotton nets. Now they are using nylon nets. What is the advantage of using nylon nets?



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84. Nylon sarees are much better than cotton sarees. Why?



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85. What characteristics make rayon better than natural silk?



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86. If you want to purchase a door mat made of synthetic fibre, which synthetic fibre door mat will you select? Why?



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87. If sanitary diapers and bandages are made of nylon, what will happen?



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88. Which type of blended fabric do you find more comfortable in winter? Why?



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89. The fabrics namely natural, synthetic and blended are available for garments. Which fabrics will you prefer to wear for rare occasions like functions and in routine? Why?



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90. Which fabrics do you prefer? Natural or synthetic? Why? Discuss comparatively.



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91. What is the different between washing of clothes at home and washing by dry cleaning?



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92. Certain fry pans are said to be non-stick.

What made them non stick?



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93. Firemen wear dress which does not catch fire. How is it possible?



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94. Are all of our clothes made of natural fibres?



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95. What are synthetic fibres? Why do we call them so? How are they manufactured?



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96. How do you find whether a fabric is synthetic or not?



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97. How long is the fibre ? Is it lustrous or not ? Do these characteristics help in identifying a fibre?



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98. Can you name few synthetic fabrics that you wear or observed?



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99. If rayon is obtained from plant cellulose then why don't we call it as a natural fibre?



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100. Why do we combine fibres? What is this process called?



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101. What type of clothes do you wear in winter?



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102. What kind of umbrella would you use on a rainy day? Would you use an umbrella made of cotton or wool?



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103. Define the following terms.

Blending



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104. Define the following terms.

Recycling



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105. Write five uses of synthetic fibres other than making cloth.



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106. Why do we store drinks in PET bottles?



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107. What are the articles made up of nylon?



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108. Why do we call rayon is cellulose fibre?



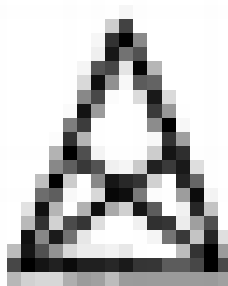
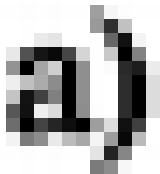
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109. Give reasons why plastic containers are used as storage devices?



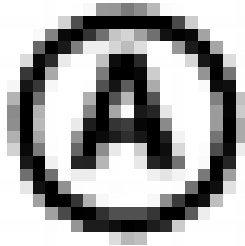
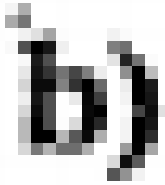
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110. What do the following symbols show?



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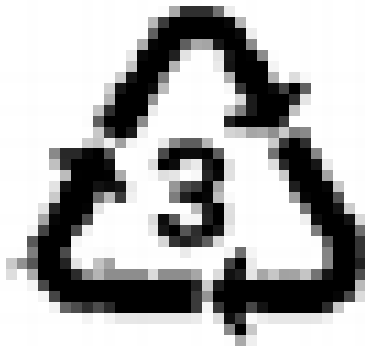
111. What do the following symbols show?



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112. What information do the following symbols give on plastic bottles?

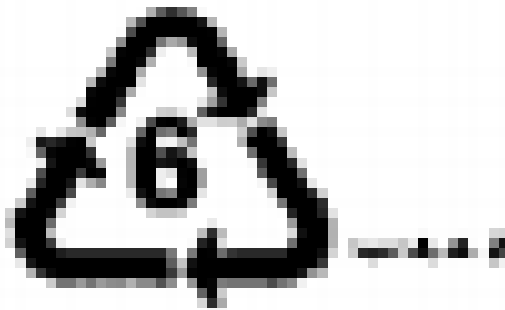
a)



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113. What information do the following symbols give on plastic bottles?

b)





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114. How much time takes to degrade the following?

Wood



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115. How much time takes to degrade the following?

Plastic bags



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116. What is the universal recycle symbol?



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117. Write the uses of

Bakelite



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118. Write the uses of

Melamine.



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119. Write any two synthetic fibres which are used to make household articles from them.



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120. Nylon cloth is used in umbrella. Why?



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121. What are the merits and demerits of nylon clothes?



[Watch Video Solution](#)

122. What is the code of the deformed bottle ?



[Watch Video Solution](#)

123. What is the name given to plastics which are deformed easily on heating?



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124. What do we call the material which are not decomposed by natural process?



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125. What are synthetic fibres? Give examples



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126. What type of clothes do you wear in winter?



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127. What is 4 R principle?



[Watch Video Solution](#)

128. What is the most common material used in making the household articles? Give two examples.



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129. Why do electrical wires have plastic covering?



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130. Firemen wear dress which does not catch fire. How is it possible?



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131. What does polymer mean?



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132. Classify the following materials into biodegradable and non-biodegradable. Paper,

plastic bags, tin, cotton cloth, aluminium metal cans, wood.



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133. Classify the following materials into thermo plastic and thermosetting plastic. Comb, Tooth brush handle, Meals plate, Coffee mug, Piece of bucket



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134. What does polymer mean?



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135. Why do we store drinks in PET bottles?



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Exercise

1. Give reasons why plastic containers are used as storage devices?



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2. Thermoplastics are eco friendly than thermosetting plastics. What do you say Why?



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3. Where do we find rayon factories in our state?



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4. Where do we use the process of recycling?

How is it useful? Give examples.



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5. Nylon sarees are much better than cotton sarees. Why?



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6. If electric switches are made by thermoplastics what would happen?



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7. Explain 4R Principle for creating eco-friendly environment.



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8. Rayon is different from synthetic fibres because

A. It has a silk like appearance

B. It is obtained from wood pulp.

C. Its fibres can also be woven like those of natural fibres.

D.

Answer:



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9. The small unit in a polymer is called

A. Monomer

B. Polymer

C. Terylene

D.

Answer:



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10. Poly amides contains

A. Carbon, Oxygen and Nitrogen

B. Carbon, Hydrogen and Oxygen

C. Carbon, Oxygen and Helium

D.

Answer:



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11. The first rayon factory in India is in

A. Andhra Pradesh

B. Kerala

C. karnataka

D.

Answer:



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12. Rayon mixed with cotton to make

A. Bed sheets

B. Carpets

C. Diapers

D.

Answer:



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13. Terylene is

A. Nylon

B. Rayon

C. Polyester

D.

Answer:



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14. Example for thermoplastics.

A. Polythene

B. PVC

C. Both a and b

D.

Answer:



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15. Crossed link arrangement observed in

A. Bakelite

B. Computer cabinet

C. Both a and b

D.

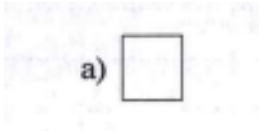
Answer:



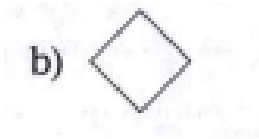
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16. Universal recycling symbol.

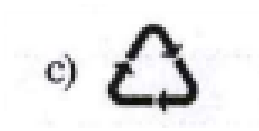
A.



B.



C.



D.

Answer:



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