



CHEMISTRY

NCERT - NCERT Chemistry(Telugu)

SYNTHETIC FIBERS AND PLASTICS

Exercise

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. Where do we use the process of recycling?

How is it useful? Give examples.



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



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12. Explain the differences between thermoplastics and thermosetting plastics with the help of a diagram explaining in terms of arrangements of monomers.



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13. 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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14. How synthetic fibres changed our everyday life?



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15. Nibha wants to buy clothes to parents for winter wear. What type of clothes would you

suggest? Specify reasons.



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



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17. Indiscriminate usage of plastic is a serious threat to bio-diversity.



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



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



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21. How synthetic fibres evolved to the present position?



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



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



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



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



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26. What characteristics make rayon better than natural silk?



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



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



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



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



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33. Certain fry pans are said to be non-stick. What made them non stick?



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



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



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



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37. Have you seen a bead neck lace?



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38. Do you observe any pattern in arrangement of bead?



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39. Can you describe the pattern observed in plastics.



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40. What are the source of synthetic fibres?



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41. What are the source of synthetic fibres?



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



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43. Why do we wear apron during cooking or working near the fire ?



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44. What do they think about buying water in polythene pouches ?



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45. What were the containers, buckets, mugs, chairs and tables used in the past made of?



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



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47. Does the arrangement of monomer units in plastics has any relation for this diversity in plastics ?



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48. Are all types of plastics recyclable ?



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

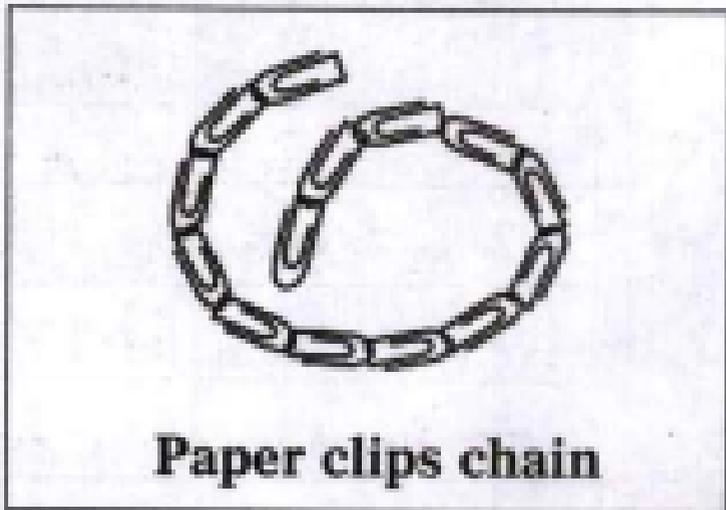


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50. Beads and paper clips pattern

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

clips in the chain.

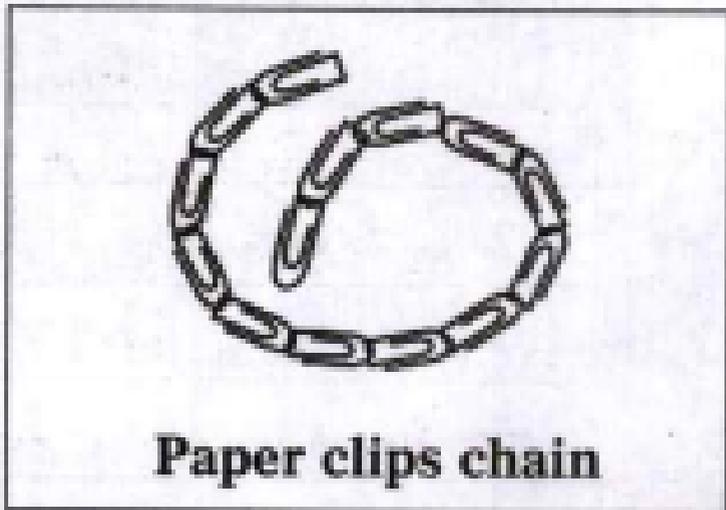


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51. Beads and paper clips pattern

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

clips in the chain.



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

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53. Identifying fibres – burning test.



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54. How strong in nylon?



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





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



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58. Whenever you buy clothes or ready made garments observe the brand label. What do you notice ?What do you see ?



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59. What is the percentage of polyster fibre and it is better than cotton?



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



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

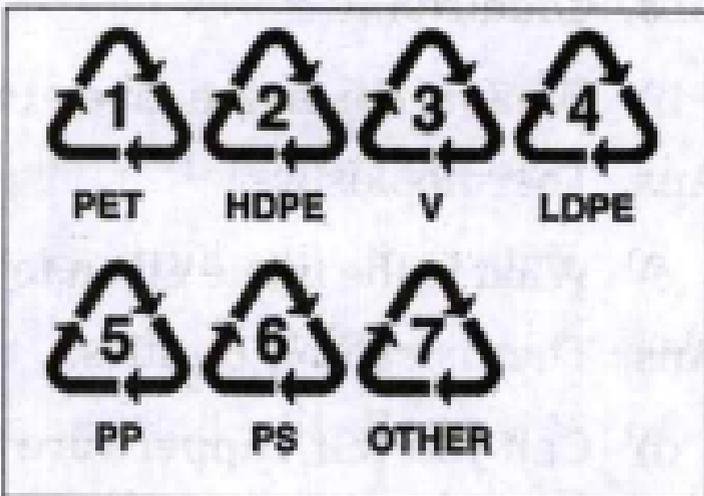


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62. How can you say a bottle is PET Bottle?

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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63. Do you observe any triangle shaped symbol at the bottom of the bottle or on the brand label of the sticker ?

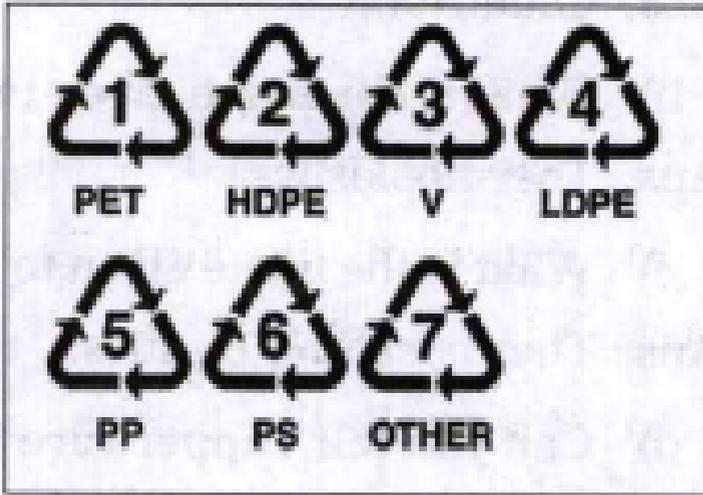


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64. How can you say a bottle is PET Bottle?
Collect different kinds of water bottles of your classmates and look at them carefully.

What number is marked in the center of the

triangle?



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65. If code no is 1 what it indicates ?



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66. Identification of various articles with recycling codes.



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67. Identification of various articles with recycling codes.



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



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69. Fleshy flattend phylloclades with bunch of spines at nodes are found in



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



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71. What about Boost or Bournavita bottles ?

A. glass

B. sand

C. wood

D. non toxic plastic

Answer:



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72. Where do you find these recycling codes of materials which are made from plastics?



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73. 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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74. What is the code of the deformed bottle ?



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



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



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77. If unknown samples are given, how do you decide whether it is thermoplastic or thermosetting



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78. Thermosetting plastic ?



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79. If you burn a piece of wood, paper, cloth, steel rod, do you notice similar observations like plastic material ?



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80. How natural fibres different from plastics ?





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



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82. 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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83. 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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84. 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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85. 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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86. What do we call the material which are not decomposed by natural process?



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87. Name two natural fibres used in making fabric.



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88. Name two natural fibres obtained from plants.



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89. What is polymer ?





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90. List five things which we can make using each of the following material : Plastic



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91. Which are made up of acrylic.



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92. What is the synthetic fibre “Nylon” is made of ?



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93. How is a rayon better fibre than silk for making cloth?



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94. Chandana, after drinking “Thums up” from a cool drink bottle noticed the number ‘1’ marked in the middle of triangle marked on the label of the bottle. what its meaning?



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95. What does this recycling code number mean present on the plastic materials?



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96. What are thermoplastics?



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97. What difference do you notice between the banned polythene bags and the bags that we are using at present to carry things from market at present?



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98. Why are artificial fibres called synthetic fibres?



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



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100. What is fake fur?



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101. What are artificial wool advantages over the traditional wool?



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102. Polyester is made from ___



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103. Explain briefly hot pin test to distinguish bakelite.



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104. What are thermoplastic polymers? Give example.



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105. Give a step-wise procedure of making rayon.



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106. Give a step-wise procedure of making rayon.



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107. Write the versatile properties of nylon fibre.



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108. Can you name the few things made up of
(i) nylon (ii) rayon (iii) acrylic and (iv)
polyesters?



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109. What is 4 R principle?



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110. What does polymer mean?



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111. Why do we store drinks in PET bottles?



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112. Fill in the blanks.

Clothing labels are.....

A. Required by law

B. Identify fabric content

C. Both a & b

D. None

Answer:



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113. Fill in the blanks.

Rayon is made of.....

A. Coal

B. Oxygen

C. Flax

D. Cellulose

Answer:



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114. Fill in the blanks.

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

A. Yes

B. No

C. Can

D. Say

Answer:



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115. Fill in the blanks.

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



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116. Fill in the blanks.

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



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117. Fill in the blanks.

Like synthetic fibre, plastic also.....



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118. Synthetic fibres are made of



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119. Fill in the blanks :is known as artificial silk.



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120. Fill in the blanks :We use and to prepare bed sheets.

A. jute,plastic

B. plastic,rayon

C. metal,silica

D. cotton,polyester

Answer:



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121. Fill in the blanks :fibre is used in parachutes and fishermen nets.



122. Fill in the blanks :are easily non-biodegradable.

A. paper bags

B. fruits

C. vegetables

D. plastics

Answer:



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



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125. 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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126. 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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127. If plastic is not properly disposed, what could be the consequences?



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128. Which of the following is not a natural fibre?

A. Wool

B. Cotton

C. Rayon

D. Silk

Answer:



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129. Which is the strongest fibre

A. Nylon

B. Cotton

C. Wool

D. Silk

Answer:



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130. Plastic carry bags are

- A. Can be recycled
- B. Cannot be recycled
- C. Becomes hard
- D. None

Answer:



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131. winter Blankets are made up of

A. Cotton,wool

B. jute,nylon

C. jute,polyster

D. None

Answer:



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132. Name the polymer present in cotton

A. Cellulose

B. Ethene

C. Ester

D. None

Answer:



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133. Name the plastic used in making electrical switches

A. Bakelite

B. PVC

C. Polythene

D. Polyester

Answer:



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134. What material is coated over iron boxes to provide heat

A. Melamine

B. Teflon

C. Plastic

D. None

Answer:



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135. Nylon is made up of

A. Coal+water+air

B. Coal +air

C. Coal +water

D. None

Answer:



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136. What is the source of plastic?

A. Natural

B. Synthetic

C. Decarboxylic acid & alcohol

D. None

Answer:



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137. Fill in the blanks :fibre is used in parachutes and fishermen nets.

A. Silk

B. Cotton

C. Nylon

D. Wool

Answer:



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138. FILL IN THE BLANKS : _____ is used in the place of wool.



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139. FILL IN THE BLANKS :Plastic do not _____ acids.



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140. FILL IN THE BLANKS :Plastics are _____

And _____

A. polymers,synthetic fibres

B. metals,nonmetals

C. natural fibres,metals

D. metals,micro organisms

Answer:



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141. FILL IN THE BLANKS : Polythene is made up of number _____

- A. butane monomer
- B. pentane monomer
- C. ethylene monomer
- D. methane monomer

Answer:



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142. FILL IN THE BLANKS : _____ technique is used extruded in polymers into fibres.

A. melt spinning

B. cooling

C. printing

D. electro typing

Answer:



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