



CHEMISTRY

NCERT - NCERT Chemistry(Telugu)

SYNTHETIC FIBERS AND PLASTICS

Exercise

1. Explain why some fibres are called synthetic?



Watch Video Solution

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



Watch Video Solution

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.



Watch Video Solution

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



Watch Video Solution

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



Watch Video Solution

6. Explain following.

Blending



Watch Video Solution

7. Explain following.

Biodegradable



Watch Video Solution

8. Explain following.

Recycling



Watch Video Solution

9. Explain following.

Decomposition



Watch Video Solution

10. Where do we use the process of recycling?

How is it useful? Give examples.



Watch Video Solution

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



Watch Video Solution

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



Watch Video Solution

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 ?



Watch Video Solution

14. How synthetic fibres changed our everyday life?



Watch Video Solution

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

suggest? Specify reasons.



Watch Video Solution

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



Watch Video Solution

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



Watch Video Solution

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?



Watch Video Solution

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



Watch Video Solution

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



Watch Video Solution

21. How synthetic fibres evolved to the present position?



Watch Video Solution

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



Watch Video Solution

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



Watch Video Solution

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



Watch Video Solution

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



Watch Video Solution

26. What characteristics make rayon better than natural silk?



Watch Video Solution

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



Watch Video Solution

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



Watch Video Solution

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



Watch Video Solution

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?



Watch Video Solution

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



Watch Video Solution

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



Watch Video Solution

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



Watch Video Solution

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



Watch Video Solution

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



Watch Video Solution

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



Watch Video Solution

37. Have you seen a bead neck lace?



Watch Video Solution

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



Watch Video Solution

39. Can you describe the pattern observed in plastics.



Watch Video Solution

40. What are the source of synthetic fibres?



Watch Video Solution

41. What are the source of synthetic fibres?



Watch Video Solution

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



Watch Video Solution

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



Watch Video Solution

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



Watch Video Solution

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



Watch Video Solution

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



Watch Video Solution

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



Watch Video Solution

48. Are all types of plastics recyclable ?



Watch Video Solution

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

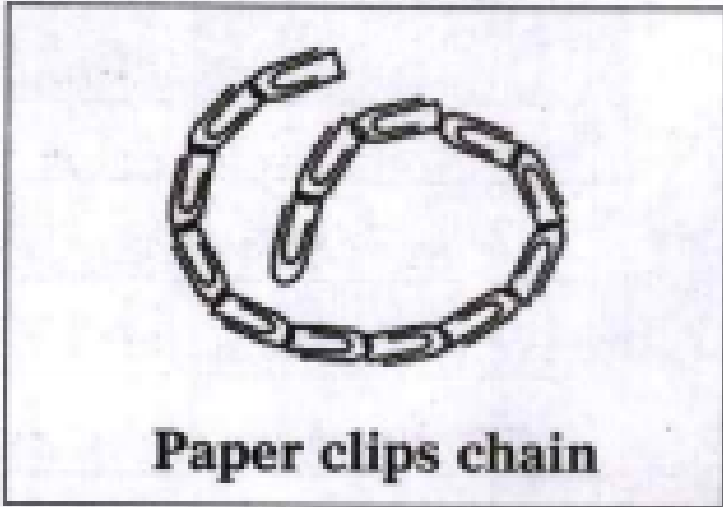


Watch Video Solution

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.

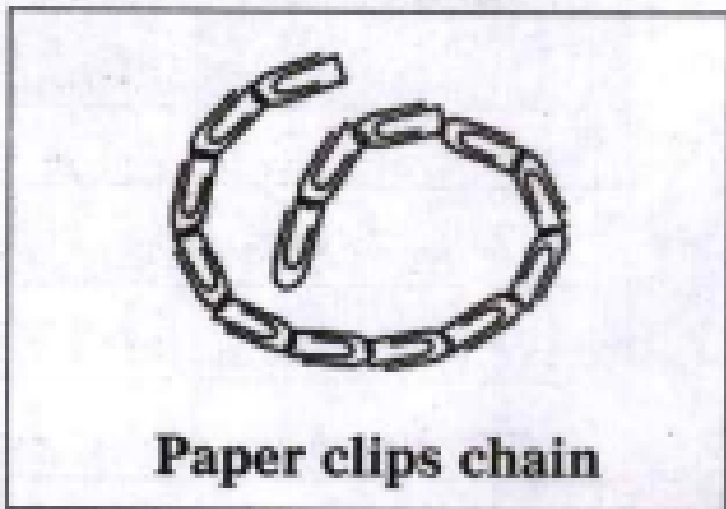


Watch Video Solution

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.



Watch Video Solution

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



Watch Video Solution

53. Identifying fibres – burning test.



Watch Video Solution

54. How strong in nylon?



Watch Video Solution

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



Watch Video Solution

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?



Watch Video Solution

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



Watch Video Solution

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



Watch Video Solution

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



Watch Video Solution

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



Watch Video Solution

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

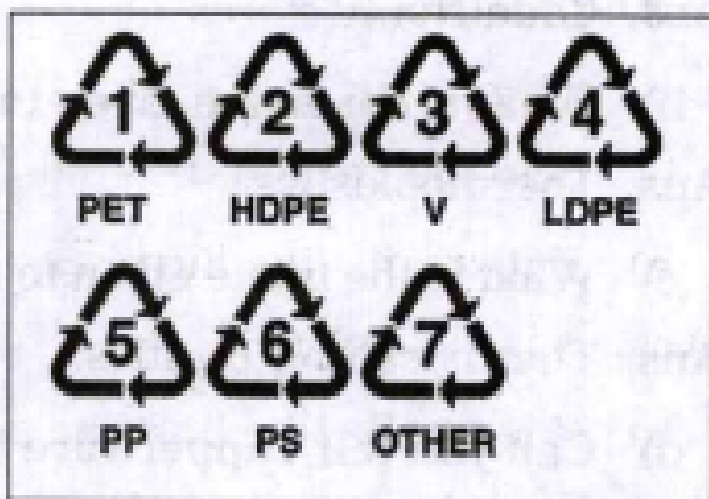


Watch Video Solution

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?



Watch Video Solution

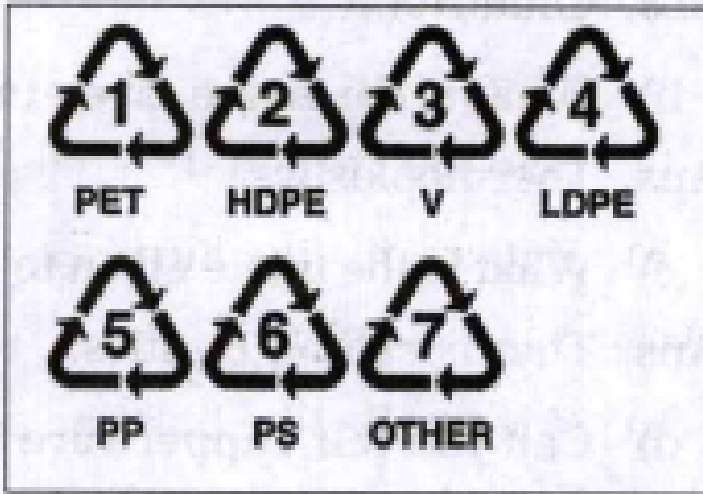
63. Do you observe any triangle shaped symbol at the bottom of the bottle or on the brand label of the sticker ?



Watch Video Solution

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?



[Watch Video Solution](#)

65. If code no is 1 what it indicates ?



[Watch Video Solution](#)

66. Identification of various articles with recycling codes.



Watch Video Solution

67. Identification of various articles with recycling codes.



Watch Video Solution

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



Watch Video Solution

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



Watch Video Solution

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



Watch Video Solution

71. What about Boost or Bournavita bottles ?

A. glass

B. sand

C. wood

D. non toxic plastic

Answer:



Watch Video Solution

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



Watch Video Solution

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?



Watch Video Solution

74. What is the code of the deformed bottle ?



Watch Video Solution

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



Watch Video Solution

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



Watch Video Solution

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



Watch Video Solution

78. Thermosetting plastic ?



Watch Video Solution

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



Watch Video Solution

80. How natural fibres different from plastics ?





Watch Video Solution

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



Watch Video Solution

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.



Watch Video Solution

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.



Watch Video Solution

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?



Watch Video Solution

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?



Watch Video Solution

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



Watch Video Solution

87. Name two natural fibres used in making fabric.



Watch Video Solution

88. Name two natural fibres obtained from plants.



Watch Video Solution

89. What is polymer ?





[Watch Video Solution](#)

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



[Watch Video Solution](#)

91. Which are made up of acrylic.



[Watch Video Solution](#)

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



Watch Video Solution

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



Watch Video Solution

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?



Watch Video Solution

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



Watch Video Solution

96. What are thermoplastics?



Watch Video Solution

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?



Watch Video Solution

98. Why are artificial fibres called synthetic fibres?



Watch Video Solution

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



Watch Video Solution

100. What is fake fur?



Watch Video Solution

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



Watch Video Solution

102. Polyester is made from ___



Watch Video Solution

103. Explain briefly hot pin test to distinguish bakelite.



Watch Video Solution

104. What are thermoplastic polymers? Give example.



Watch Video Solution

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



Watch Video Solution

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



Watch Video Solution

107. Write the versatile properties of nylon fibre.



[Watch Video Solution](#)

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



[Watch Video Solution](#)

109. What is 4 R principle?



[Watch Video Solution](#)

110. What does polymer mean?



Watch Video Solution

111. Why do we store drinks in PET bottles?



Watch Video Solution

112. Fill in the blanks.

Clothing labels are.....

A. Required by law

B. Identify fabric content

C. Both a & b

D. None

Answer:



Watch Video Solution

113. Fill in the blanks.

Rayon is made of.....

A. Coal

B. Oxygen

C. Flax

D. Cellulose

Answer:



Watch Video Solution

114. Fill in the blanks.

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

A. Yes

B. No

C. Can

D. Say

Answer:



Watch Video Solution

115. Fill in the blanks.

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



Watch Video Solution

116. Fill in the blanks.

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



Watch Video Solution

117. Fill in the blanks.

Like synthetic fibre, plastic also.....



Watch Video Solution

118. Synthetic fibres are made of



Watch Video Solution

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



Watch Video Solution

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:



Watch Video Solution

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.



Watch Video Solution

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



Watch Video Solution

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 ?



Watch Video Solution

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 ?



Watch Video Solution

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



Watch Video Solution

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

A. Wool

B. Cotton

C. Rayon

D. Silk

Answer:



Watch Video Solution

129. Which is the strongest fibre

A. Nylon

B. Cotton

C. Wool

D. Silk

Answer:



Watch Video Solution

130. Plastic cary bags are

- A. Can be recycled
- B. Canot be recycled
- C. Becomes hard
- D. None

Answer:



Watch Video Solution

131. winter Blankets are made up of

A. Cotton,wool

B. jute,nylon

C. jute,polyster

D. None

Answer:



Watch Video Solution

132. Name the polymer present in cotton

A. Cellulose

B. Ethene

C. Ester

D. None

Answer:



Watch Video Solution

133. Name the plastic used in making electrical switches

A. Bakelite

B. PVC

C. Polythene

D. Polyester

Answer:



Watch Video Solution

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

A. Melamine

B. Teflon

C. Plastic

D. None

Answer:



Watch Video Solution

135. Nylon is made up of

A. Coal+water+air

B. Coal +air

C. Coal +water

D. None

Answer:



Watch Video Solution

136. What is the source of plastic?

A. Natural

B. Synthetic

C. Decarboxylic acid & alcohol

D. None

Answer:



Watch Video Solution

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

A. Silk

B. Cotton

C. Nylon

D. Wool

Answer:



Watch Video Solution

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



Watch Video Solution

139. FILL IN THE BLANKS :Plastic do not _____acids.



Watch Video Solution

140. FILL IN THE BLANKS :Plastics are _____
And _____

A. polymers,synthetic fibres

B. metals,nonmetals

C. natural fibres,metals

D. metals,micro organisms

Answer:



Watch Video Solution

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

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

Answer:



Watch Video Solution

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

A. melt spinning

B. cooling

C. printing

D. electro typing

Answer:



Watch Video Solution