



# CHEMISTRY

## NCERT - NCERT Chemistry(Telugu)

### SYNTHETIC FIBRES AND PLASTICS

#### Think And Discuss

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



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



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3. How synthetic fibres evolved to the present position?



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4. What will happen if parachutes are made with cotton?



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



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



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7. What characteristics make rayon better than natural silk?



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**8.** 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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**9.** If sanitary diapers and bandages are made of nylon, what will happen?



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



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**11.** 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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**12.** Which fabrics do you prefer? Natural or synthetic? Why? Discuss comparatively.



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



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**14.** Certain fry pans are said to be non-stick.

What made them non stick?



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



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**Improve Your Learning Reflections On Concepts**



1. Explain why some fibres are called synthetic?



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2. Which are made up of acrylic.



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3. What is the universal recycle symbol?



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4. What are thermosetting plastics. Give two examples.



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



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**Improve Your Learning Application Of Concepts**

1. How synthetic fibres changed our everyday life?



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



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3. What could be the consequences if plastic is not properly disposed ?



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4. Is there any such effort for solid waste management taking place in your village /town ?



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5. Where do we use the process of recycling?  
How is it useful? Give examples.



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



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## Improve Your Learning Higher Order Thinking Questions

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



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2. Imagine what would happen if we do not discover plastics.



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



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4. 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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5. 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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## Improve Your Learning Multiple Choice Questions

1. Rayon is prepared by

A. Coal

B. Oxygen

C. Fibre

D. Cellulose



**Answer:**



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**2. Necessity of labels on clothes**

- A. Required by law
- B. To identify fabric content
- C. Both A and B
- D. They do not decompose

**Answer:**



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3. The material which is not decomposed by natural process is called

A. Non bio-degradable material

B. Bio-degradable material

C. Polyster

D. Nylon

**Answer:**



4. Which is a Natural fibre among the following

A. Rayon

B. Nylon

C. Polyester

D. Silk

**Answer:**



## Improve Your Learning Suggested Experiments

1. Conduct a flame test to identify Thermoplastics and Thermosetting plastics.



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2. 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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## Improve Your Learning Suggested Projects

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



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2. Collect the figures made up of thermosetting, thermoplastics used in your daily life and make a poster.



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3. 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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