



BIOLOGY

BOOKS - NCERT EXEMPLAR

SYNTHETIC FIBRES AND PLASTICS

Multiple Choice Questions

1. Pick the synthetic fibre out of the following?

A. Cotton

B. Nylon

C. Jute

D. Wool

Answer: B



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2. Which of the following is a source of rayon?

A. Wool

B. PET

C. Wood pulp

D. Silk

Answer: C



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3. Polycot is obtained by mixing

A. nylon and wool

B. polyester and wool

C. nylon and cotton

D. polyester and cotton

Answer: D



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4. Which is a thermosetting plastic?

A. Melamine

B. Polythene

C. PVC

D. Nylon

Answer: A



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5. The material similar to silk in appearance is

A. Nylon

B. Rayon

C. Polyester

D. Terylene

Answer: B



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6. The most suitable material for the preparation of handles of cooking utensils is

A. Polythene

B. PVC

C. Nylon

D. Bakelite

Answer: D



7. Which of the following is not a common property of plastics?

A. Non-reactive

B. Light in weight

C. Durable

D. Good conductor of electricity

Answer: D



8. Why thermosetting plastics are harder than thermoplastics?



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9. Which of the following groups contain all synthetic substances?

A. Nylon, Terylene, Wool

B. Cotton, Polycot, Rayon

C. PVC, Polythene, Bakelite

D. Acrylic, Silk, Wool

Answer: C



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10. The material which is commonly used for making kitchen containers is

A. PVC

B. Acrylic

C. Teflon

D. PET

Answer:



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Very Short Answer Questions

1. Cotton is a natural polymer. What is its chemical name?

A. Cellulose

B. Lignin

C. Starch

D. Pectin

Answer: A



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2. Give an example of thermosetting plastics



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3. Why plastics are used to store various kinds of materials including chemicals?.



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4. What are the advantages of using a plastic container?



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5. Why plastics never used for making utensils which are used for cooking food on gas stoves?



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6. Synthetic fibres are made of large molecules known as _____

A. Polymers

B. Monomers

C. Petrochemicals

D. Hydrocarbons

Answer: A



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7. _____ materials are made by modifying raw materials such as coal and petroleum through chemical reactions to obtain new materials

A. Man made

B. Artificial

C. Natural

D. Both A and b

Answer: D



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8. _____ is a kind of thermosetting plastic that is used for making electrical fittings.

A. Teflon

B. Bakelite

C. Polyester

D. PVC

Answer: B



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9. _____ is used in electrical fittings, handles of utensils and crockery are made of thermosetting plastics.

A. Melamine

B. PVC

C. Polythene

D. Teflon

Answer: A



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10. _____ becomes soft when they are heated and harden on cooling.

A. Polythene

B. PVC

C. Bakelite

D. Thermoplastics

Answer: D



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11. Select the articles from the following list which are biodegradable. (a) Paper (b) Woollen

clothes (c) Wood (d) Aluminium can (e) Plastic bag (f) Peels of vegetables



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12. Select the articles from the following list which are biodegradable.

peels of vegetables



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13. A bucket made of plastic does not rust like a bucket made of iron. Why?



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Short Answer Questions

1. Rohit took with him some nylon ropes, when he was going for rock climbing. Can you tell why he selected nylon ropes instead of ropes made of cotton or jute?



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2. A lady went to the market to buy a blanket.

The shopkeeper showed her blankets made of acrylic fibres as well as made of wool. She preferred to buy an acrylic blanket. Can you guess why?



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3. PVC (polyvinyl chloride) is a thermoplastic and is used for making toys, chappals, etc.

Bakelite is a thermosetting plastic and is used for making electrical switches, handles of various utensils, etc. Can you write the major difference between these two types of plastics?



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4. Fill in the blanks.

(i) A polymer is a chain of many small units joined together which are called _____.

(ii) The synthetic fibres are also known as _____

fibres.

(iii) The first fully synthetic fibre was _____.

(iv) A fibre similar to wool is _____.

(v) A plastic used for making crockery is _____.



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5. Unscramble the jumbled words given below, related to synthetic materials.

anory



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6. Unscramble the jumbled words given below, related to synthetic materials.

lopmyery

A. Polymer

B. Monomer

C. Diplomer

D. All of these

Answer: A



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7. Unscramble the jumbled words given below,
related to synthetic materials.

relyteen



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8. Unscramble the jumbled words given below,
related to synthetic materials.

laspict



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9. Unscramble the jumbled words given below, related to synthetic materials.

yespolter



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10. Unscramble the jumbled words given below, related to synthetic materials.

felton



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Long Answer Questions

1. Indicate whether the following statements are True or False. Also write the false statements in their correct form.

The fabric terywool is obtained by mixing terylene and wool.



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2. Indicate whether the following statements are True or False. Also write the false

statements in their correct form.

Synthetic fibres do not melt on heating.



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3. Indicate whether the following statements are True or False. Also write the false statements in their correct form.

It is risky to wear synthetic clothes while working kitchen.



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4. Indicate whether the following statements are True or False. Also write the false statements in their correct form.

Most of the plastics are biodegradable.



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5. Write the importance of synthetic polymers in our life.



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6. Despite being very useful it is advised to restrict the use of plastic. Why is it so? Can you suggest some methods to limit its consumption?



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7. Write an activity to show that synthetic fibres are stronger than the cotton fibres.



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