Synthetic Fibres and Plastics

MULTIPLE CHOICE QUESTIONS

- 1. Pick the synthetic fibre out of the following?
 - (a) Cotton (c) Jute
 - (b) Nylon (d) Wool

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

- (a) Wool (c) Wood pulp
- (b) PET (d) Silk
- 3. Polycot is obtained by mixing
 - (a) nylon and wool
 - (b) polyester and wool
- (c) nylon and cotton(d) polyester and cotton
- 4. Which is a thermosetting plastic?
 - (a) Melamine (c) PVC
 - (b) Polythene (d) Nylon
- 5. The material similar to silk in appearance is
 - (a) Nylon
- (c) Polyester

(b) Rayon

- (d) Terylene
- 6. The most suitable material for the preparation of handles of cooking utensils is
 - (a) Polythene

- (c) Nylon
- (b) PVC (d) Bakelite
- 7. Which of the following is not a common property of plastics?
 - (a) Non-reactive (c) Durable
 - (b) Light in weight (d) Good conductor of electricity
- 8. Which of the following represents the correct match for items in **Column A** with those in **Column B**.
 - Column A

Column B

I. Nylon II. PVC (i) Thermoplastic(ii) Thermosetting plastic

III. Bakelite

(iii) Fibre

- (a) I-(ii), II-(iii), III-(i)
 (c) I-(ii), II-(i), III-(iii)

 (b) I-(iii), II-(i), III-(ii)
 (d) I-(iii), II-(ii), III-(ii)
- 9. Which of the following groups contain all synthetic substances?
 - (a) Nylon, Terylene, Wool (c) PVC, Polythene, Bakelite
 - (b) Cotton, Polycot, Rayon (d) Acrylic, Silk, Wool
- 10. The material which is commonly used for making kitchen containers is
 - (a) PVC (c) Teflon
 - (b) Acrylic (d) PET

VERY SHORT ANSWER QUESTIONS

- 11. Cotton is a natural polymer. What is its chemical name?
- 12. A synthetic fiber which looks like silk is obtained by chemical treatment of wood pulp. It is, therefore, known as artificial silk. What is its common name?
- 13. Terrycot is made by mixing two types of fibres. Write the names of the fibres.
- 14. Plastic articles are available in all possible shapes and sizes. Can you tell why?
- 15. Plastic is used for making a large variety of articles of daily use and these articles are very attractive. But it is advised to avoid the use of plastic as far as possible. Why?
- 16. Why is it not advisable to burn plastic and synthetic fabrics?
- 17. Select the articles from the following list which are biodegradable.
 - (a) paper

- (c) wood
- (b) woolen clothes
- (d) aluminium can

(e) plastic bag

- (f) peels of vegetables
- 18. A bucket made of plastic does not rust like a bucket made of iron. Why?

SHORT ANSWER QUESTIONS

- 19. 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?
- 20. 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?
- 21. 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?
- 22. 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 _____
- 23. Match items in List A with the items of list B.

List A

List B

(a) nylon

(i) non-stick coating

(b) PET

- (ii) electric switches(iii) parachutes
- (c) rayon(d) thermosetting plastics
- (iv) polyester

(e) teflon

(v) artificial silk

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

(a) anory

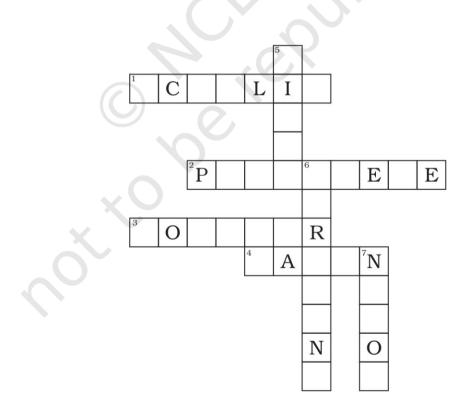
(b) lopmery(d) laspict

(c) relyteen(e) vespolter

(f) felton

LONG ANSWER QUESTIONS

- 25. Indicate whether the following statements are True or False. Also write the false statements in their correct form.
 - (i) The fabric terywool is obtained by mixing terylene and wool.
 - (ii) Synthetic fibres do not melt on heating.
 - (iii) It is risky to wear synthetic clothes while working in the kitchen.
 - (iv) Most of the plastics are biodegradable.
- 26. Write the importance of synthetic polymers in our life.
- 27. 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?
- 28. Write an activity to show that synthetic fibres are stronger than the cotton fibres.
- 29. Complete the crossword given below with the help of clues.



Across

- 1. Substance used as synthetic wool (7)
- 2. A plastic used for making containers and carry bags (9)
- 3. Substance made up of large number of smaller molecules (7)
- 4. Another name for this compound is artificial silk (5)

Down

- 5. A type of fibre obtained naturally from cocoon (4)
- 6. A synthetic fibre classified as polyester (8)
- 7. A polymer used for making rope (5)