

GRADE 8TH MATHS
CHAPTER 3

Synthetic Fibres and Plastics

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- Rayon is different from truly synthetic fibres because :
 - it has a silk-like appearance.
 - it is obtained from wood pulp.
 - its fibres can be woven like those of natural fibres.
 - it can be dyed in wide variety of colours.
- The synthetic material which can be used for making fabrics as well as shatterproof bottles and jars is :
 - nylon
 - rayon
 - polyester
 - acrylic
- Which of the following has cross-linked polymer chains ?
 - bakelite
 - polyester
 - PVC
 - nylon
- The man-made fibre made from the cellulose polymer is :
 - nylon
 - acrylic
 - rayon
 - polyester
- Which of the following is not a thermoplastic polymer ?
 - polyester
 - melamine
 - nylon
 - polyvinyl chloride
- The synthetic polymer which can be used as a substitute for wool for making sweaters and shawls, etc.,
 - nylon
 - polyester
 - terylene
 - acrylic
- Which of the following is not a synthetic fibre ?
 - nylon
 - flax
 - acrylic
 - polyester
- The synthetic fibre which contains the organic groups similar to those which give fruits their 'sweet smell' is
 - nylon
 - acrylic
 - terylene
 - rayon
- The man-made fibre rayon is chemically identical to :
 - wool
 - silk
 - jute
 - cotton
- One of the following man-made fibre is not prepared from raw materials obtained from petrochemicals. This one is :
 - polyester
 - nylon
 - rayon
 - acrylic
- Which of the following plastics do not have cross-links between their polymer chains ?

A. Nylon B. Melamine C. Terylene D. Bakelite

 - A and B
 - B and C
 - A and C
 - C and D
- The clothes of a person working in the kitchen catch fire accidentally causing severe burns. The person is most likely wearing clothes made of :
 - flax
 - rayon
 - terylene
 - cotton

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13. The plastic which is coated on the uniforms of firemen to make them fire-resistant is :
(a) bakelite (b) polythene (c) teflon (d) melamine
14. Which of the following is a man-made fibre prepared from Wood-pulp ?
(a) flax (b) nylon (c) acrylic (d) rayon
15. The manufacture of one of the following artificial fibres contributes to deforestation. This fibre is :
(a) nylon (b) rayon (c) terylene (d) acrylic
16. The non-stick coating on frying pans is that of a plastic called :
(a) polyvinyl chloride (b) melamine (c) bakelite (d) teflon
17. Which of the following plastics is used for making electric switches ?
(a) teflon (b) melamine (c) PET (d) bakelite
18. Which of the following are thermosetting polymers ?
A. Melamine B. Terylene C. Polythene D. Bakelite
(a) A and B (b) B and C (c) A and D (d) B and D
19. The similarity between artificial silk and cotton is that :
(a) both are non-biodegradable (b) both melt on heating
(c) both are amide polymers (d) both are cellulose polymers
20. Which of the following plastic objects can be recycled ?
A. Electric socket B. Polythene bag C. PVC pipe D. Ashtray
(a) A and B (b) B and C (c) A and D (d) C and D
21. Fill in the following blanks with suitable words : 
- (a) Synthetic fibres are also called _____ or _____ fibres.
- (b) Synthetic fibres are made from raw materials called _____
- (c) Like synthetic fibres, plastic is also a _____
- (d) The use of plastics can be reduced by using bags made of _____ or _____ instead of polythene bags

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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 (c) nylon and cotton
(b) polyester and wool (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 groups contain all synthetic substances?
(a) Nylon, Terylene, Wool (c) PVC, Polythene, Bakelite
(b) Cotton, Polycot, Rayon (d) Acrylic, Silk, Wool

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9. The material which is commonly used for making kitchen containers is
(a) PVC (c) Teflon
(b) Acrylic (d) PET
10. The purest natural form of cellulose obtained from plants is
(a) rayon
(b) cotton
(c) wool
(d) silk
11. The first synthetic fibre produced chemically is
(a) rayon
(b) nylon
(c) polyester
(d) acrylon
12. The synthetic plastic used for making insulation cover in electrical wires/cables is
(a) bakelite (b) melamine (c) polyvinyl chloride (d) polystyrene
13. A synthetic polymer called polythene is prepared from
(a) ethyne
(b) ethene
(c) ethanol
(d) ethane
14. Teflon is a long chain polymer of a chemical substance called _____.
(a) aldehyde
(b) tetra flouroethene
(c) alcohol
(d) ethene
15. The fibre that burns readily with smell of burning paper is _____.
(a) Polyester
(b) Cotton
(c) Rayon
(d) Acrylic
16. Nylon is a polymer which is termed as _____.
(a) Polyamide
(b) Polyester
(c) Polyamine
(d) Polyvinyl
17. Which of the following is a polymer of tetrafluoroethene ?
(a) PVC
(b) Teflon
(c) Bakelite
(d) Nylon

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18. Which of the following is a thermosetting plastic ?

- (a) PVC
- (b) Teflon
- (c) Bakelite
- (d) Nylon

19. Which of these fibres is made from raw material obtained from plants ?

- (a) Rayon
- (b) Nylon
- (c) Terylene
- (d) Polyester

20. _____ is obtained from hair of an animal.

- (a) Silk
- (b) Nylon
- (c) Cotton
- (d) Wool

21. Fill in the blanks.

- (a) _____ is a thermosetting polymer.
- (b) Polyesters are made from _____ products.
- (c) Synthetic fibres are not good absorbers of _____.
- (d) _____ burns vigorously and leaves very little ash.
- (e) _____ is a superior synthetic polyamide fibre used to manufacture type cords.
- (f) All polymers/plastics are _____.
- (g) Synthetic fibres do not absorb _____.
- (h) Thermoplastics can be _____; while thermosetting polymers can not be _____.
- (i) The chemical name of Teflon is _____.
- (j) Careless disposal of used plastic bags produces _____.
- (k) The simplest molecule of a polymer is called _____.
- (l) Polymer of vinyl chloride is _____.
- (m) _____ has anti – stick property and used as a coating on the surface of frying pan.
- (n) The rayon is obtained from _____ solution.

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22. Write True for the correct statement and False for the incorrect statement.

- (a) Polyester is prepared from petroleum products. _____
- (b) Rayon is made from methanol. _____
- (c) Structure of a polymer can be compared to that of a gemstone in a ring.

- (d) Bakelite is a poor conductor of electricity. _____
- (e) Polymers can have a cross-linked arrangement of molecules. _____

