Synthetic Materials in Daily Life

Grade VIII

Worksheet

Fill in the Blanks

1. Why plastic is used in aircraft and spaceships?
   a)Plastics are lighter compared to metals.
   b)Plastics are cheaper.
   c)Plastics are easy to handle.
   d)Plastic can be recycled.

2. Which one of the following is non-biodegradable material?

   a). Paper

   b). Metal cans

   c). Cotton cloth

   d).Wood

3. Plastics are poor conductor of _____
   a) Air
   b) Water
   c) Heat and electricity
   d) None of these

4. What is PET?
   a). Polyester
   b). Polyester and Terylene
   c). Poly Ethylene Terephthalate
   d). Poly Ethene Terylene

5. Acrylic is an inexpensive substitute for _____
   a) wool
   b) cotton
   c) silk
   d) jute

6. Which of the following is a characteristic of synthetic fibres?
   a) Highly water absorbent
   b) Good conductor of electricity
   c) Elastic

d) Gets creases easily

7. _____ is manufactured from wood pulp.
   a) Polyester
   b) Rayon
   c) Terylene
   d) Teflon

8. If you want to make a raincoat, which of the following materials would you use?
   a) Rayon
   b) Silk
   c) Nylon
   d) Acrylic

9. A factory uses PET as its raw material. What could be the product of this factory?
   a) Water bottles
   b) Garments
   c) Cooking vessels
   d) Blankets

10. The units that make up a polymer are held together by _____
    a) Fibres
    b) Physical bonds
    c) Chemical bonds
    d) Synthetic glue

Fill in the Blanks

11. _____ are long chains of molecules linked together.
12. Synthetic fibres such as nylon are made from _____ products.
13. Polycot is a blended fabric obtained by blending fibres of _____ and _____.
14. Melamine is an example of a _____ plastic.

Answer the Questions:

1. State two examples each of natural and synthetic fibres.
2. How is rayon manufactured?
3. How would you differentiate between wool and acrylic with the help of a simple test?
4. What can be blended with wool to make suits and trousers that are more affordable than those made of pure wool?
5. Describe any three properties of each of the following fibres. State the uses based on each of the properties.
   a) Rayon   b) Polyester   c) Nylon
6. What are blended fabrics? Why are they preferred over natural fabrics? Explain with the help of two examples.
7. Differentiate between thermoplastics and thermosetting plastics.