PSBB LEARNING LEADERSHIP ACADEMY

2020-2021

CLASSWORK ASSIGNMENT

GRADE- VIII SUBJECT – SCIENCE

MAN MADE MATERIALS

1. Define the following:-

- a) Annealing -The process of cooling the finished glass to make it tougher
- b) Polymerisation The process by which smaller molecules (monomers) link together and form larger molecules (polymers).

2. Give examples for each of the following:

Blended fibres: Polycot, terry cot

Polyester fibres which are manufactured from petroleum products: Dacron, Terene

3. Find the odd one out and give reason for your choice

Cottton, Jute, polyester, wool, silk

Ans: Polyester. Polyester is a synthetic fibre whereas rests are natural.

4. Differentiate between thermoplastic and thermosetting plastic

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<u>THERMOPLASTIC</u>		THERMOSETTING PLASTIC
1.	These can be heated and cooled repeatedly. Can be shaped in a number of ways on	These plastics can be heated only once . Cannot be reshaped once moulded.
3.	heating. They are flexible and can be bent easily.	They break if they are forced to bend.
Eg:- plastic bags, plastic films		Eg:- PVC, Teflon

5. Give scientific reason for the following:

Plastics are used to make heart valves, prosthetics and other body parts.

Ans: Plastics are used to make heart valves, prosthetics and other body parts as they are highly flexible and do not rot.

6. Answer the following:

a) Write the composition of "glass".

Ans: Composition of glass

70% Silica, SiO2

15% Soda ash, Na2CO3

10% lime stone, CaCO3

5% Impurities

b) List any two uses of "optical fibres".

Ans: The two uses of optical fibres are:

- In the medical field, they are used in endoscopy to detect any abnormality in the patient's body.
- In the modern communication, optical fibres are used to transmit messages.
- c) "Plastics have properties which make them very useful" comment.

Ans: The properties of plastics which make them useful are:

- They are light, strong and durable.
- Non-reactive and non-corrosive.
- Can be coloured and moulded to any desired shape.
- d) What problems can be caused by the overuse of plastic? HW