

SATISH CHANDRA MEMORIAL SCHOOL

Class :- VII

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Chapter 3: Fibre to fabric

HOTS

1. Does shearing hurt the sheep? Justify your answer .Why is it done during early summer season?
2. Why is it necessary to kill pupae by boiling cocoons in hot water at right time?
3. Why is sericulture not considered as eco-friendly practice?
4. While working in a wool industry and silk industries,what type of health problems fo the workers suffered?

Case study

1. Reena noticed that the helper who comes to her house to cook food had worn a silk saree .The helper told Reena about her small sericulture farm where she reared silkworms and killing thousands of cocoons to make silk fabrics.
  - a) What is sericulture?
  - b) Draw a schematic diagram of the life cycle of a silkworm .
  - c) Differentiate between cocoon and wool.
  - d) Constantly dipping the hands in boiling water used for killing worms inside the cocoons can cause .....
  - e) What is silkworm? What does it eat?
2. Arun and Ria want to help the children affected by floods in a cold northern region.They want to send clothes to the affected children .They have collected woollen garments for them.
  - a) What kind of clothes should Arun and Ria collect?
  - b) How woollen clothes would create insulation for the wearer?

## Chapter :4

### HEAT

### HOTS

- 1.Explain why a clinical thermometer can not be used to measure high temperature?
2. Why is water not used instead of mercury in the thermometers when it is easily available to us?
3. The houses in places with hot climate , generally have white outer walls.Why?
4. The feathers of a bird protect it from cold .How?
- 5.Why are ventilators located near the roof of a room?

### Case study

1. Mrs.Sharma always buys utensils in which she cooks food with the base painted black.
  - a)Why do she preferred to buy such utensils with base painted black?
  - b)Is black colour a good radiator or absorber of heat?
  - c)What type of heat transfer takes place here?
  - d) Black objects absorb as well as radiate more heat than white objects.Give two every day uses of this principle.
2. Rohit gives his outgrown and old clothes and sweaters to the people who do not have many.
  - a)How the sweaters keep us warm in winters?
  - b)Why wearing more layers of clothing during winter keeps us warmer than wearing just one thick piece of clothing?

## **Chapter :5**

### **Acids ,bases and salts**

#### **HOTS**

1. One must not eat sweets after brushing teeth at night.Why?
2. Oranges,limes and curd have a sour taste.Give reason.
3. How are acids helpful in maintaining our good health?
4. Why are turmeric stain on a white shirt turn red when washed with soap?
5. Why are toothpastes basic in nature?

#### **Case study**

1. Pinki went to a park for playing badminton.While playing ,she was stung by a bee.One of her friend suggested to apply paste of baking soda .
  - a)Why do you think that we should apply paste of baking soda on that area?
  - b) Which acid is present in bee's sting?
  - c)How can the effect of sting be neutralised?
  
2. During a field trip to an industry,Anusha and her friends noticed that untreated waste water was being discharged in water bodies.They met the chief engineer and told him that the industry should take suitable measures.
  - a)What do you think would happen if waste water released in the water bodies?
  - b)How can the acid waste should be neutralised?