

Chapter-1

Worksheet-2

Section 1

Q1. Discuss why wearing more layers of clothing during winter keeps us warmer than wearing just one thick piece of clothing?

Q2. Shopkeepers selling ice blocks usually cover them with jute sacks. Explain why.

Q3. The radiators in cars are painted black. Explain why.

Q4. The mercury does not fall or rise in a clinical thermometer when taken out of the mouth. Explain why.

Q5. It is preferred to use two thin blankets rather than one thick blanket. Explain the reason

Q6. While reading a clinical thermometer, what precautions should we take?

Q7. State the limitation of clinical thermometer

Q8. Explain in brief, why we wear dark coloured clothes in winter and light coloured clothes in summer.

Q9. The freezer is located at the top of the refrigerator. Explain why.

Q10. Briefly explain, why do the kites and eagles fly without flapping their wings.

Section 2

Q11. One liter of water at 30°C is mixed with one liter of water at 50°C . The temperature of the mixture will be:

- a) 80°C
- b) More than 50°C but less than 80°C
- c) 20°C
- d) Between 30°C and 50°C .

Q12. Convection May Occur Through

- a) Solid and Liquids
- b) Liquids and Gases
- c) Solids and Gases
- d) Solid Liquid and Gases

Q13. In solids, generally, the heat is transferred by the process of _____.

- a) Convection
- b) Radiation
- c) Conduction
- d) Insulation

Q14. A plastic spoon is dipped in a cup of ice cream, Its other end

- a) Becomes cold by Conduction
- b) Becomes cold by Convection
- c) Becomes cold by Radiation
- d) Dose not become cold

Q15. A beggar wrapped himself with a few layers of newspaper on a cold winter night. This helped him to keep himself warm because

- a) friction between the layers of newspaper produces heat

- b) air trapped between the layers of newspaper is a bad conductor of heat
- c) newspaper is a conductor of heat
- d) newspaper is at a higher temperature than the temperature of the surroundings

Q16. Shining thread in thermometer is the column of _____

- a) Mercury
- b) Water
- c) Xenon
- d) Silver dye

Q17. The maximum and minimum temperature of the day is measured by a _____

- a) Clinical Thermometer
- b) Laboratory Thermometer
- c) Maximum- Minimum Thermometer
- d) All of the above

Q18. In _____ generally, the heat is transferred by the process of conduction.

- a) Liquids
- b) Solids
- c) Gases
- d) Wood

Q19. In coastal areas, cold air flows in the day from sea to land. It is called _____

- a) Land Breeze
- b) Cold Breeze
- c) Sea Breeze
- d) Hot Breeze

Q20. To determine which object is hotter the most reliable measurement is _____

- a) By touch
- b) By colour
- c) By thermometer
- d) By Licking