



CHAPTER: - HEAT

REVISION ASSIGNMENT

GUIDELINES

Dear Students

- Refer to the content given in the previous E-Lessons and kindly go through the links provided earlier to have a better understanding of the topics already discussed in the chapters.
- The revision assignment given below has to be attempted in the Science notebook.

INSTRUCTIONS

- It is mandatory to attempt all the questions given below.
- Mention the question numbers for each answer.
- In objective-type questions, you have to write the complete statement along with the correct answer.

Q.1 Multiple Choice Questions: - Mark the correct answer:

- (i) Conduction of heat takes place in
a) solids b) liquids c) vacuum d) space
- (ii) A device used to measure temperature is
a) thermometer b) barometer c) hygrometer d) voltmeter
- (iii) The range of a clinical thermometer is
a) 35 °C to 42°C b) 30°C to 35°C
c) -10°C to 110°C d) 0 °C to 42°C
- (iv) The heat of the sun reaches us through
a) conduction b) convection c) radiation

Q2. Match the following-

a) Land breeze	(i) night time
b) Sea breeze	(ii) solids
c) Conduction	(iii) metals
d) Convection	(iv) liquids

e) Insulator	(v) day time
f) Conductor	(vi) plastics

Q3. Write True or False. Also, correct the False statements.

1. The normal temperature of the human body is 98.6°C
2. Liquids are a better conductor of heat than solids.
3. Telephone wires sag in summer due to their expansion.
4. Plastic is a good conductor of heat.
5. We should hold the thermometer by the bulb while holding it.

Q4. Give a reason for the following-

1. The radiators of cars are painted black.
2. Gunny bags are used to prevent the melting of ice.
3. Tumblers used to sip hot drinks are not made of metals.
4. Two thin blankets are usually warmer than one thick blanket
5. Freezers are placed at top of refrigerators.

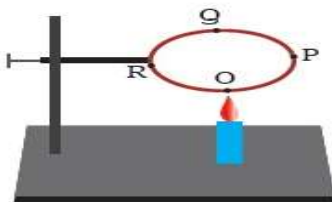
Q5. Give one word for the following-

1. Substances that can flow.
2. A material that allows heat to pass through them.
3. Mode of transfer of heat in solids.
4. A form of energy that enables us to feel hotness or coldness.
5. The process by which heat transfers in the air.

Answer the following questions -

Q6. In summers, we prefer light-coloured clothes and in winters we usually wear dark-coloured clothes. Explain why.

Q7. A circular metal loop is heated at point O as shown in the figure -



- (i) In which direction would heat flow in the loop?
- (ii) In which order the pins at points P, Q and R fixed with the help of wax fall if points O, P, Q and R are equidistant from each other?

Q8. The desert sand is very hot during the day and very cold at night. Explain the reason.

Q9. In what way is conduction different from convection?

Q10. State one use of good and bad conductors of heat.

Assertion-Reason Questions

Note: Read the assertion Reason Statements carefully and mark the correct option out of the following options:

(a) If both the assertion and the reason are true and the reason is the correct explanation of the assertion.

(b) If both assertion and the reason are true and the reason is not the correct explanation of the assertion.

(c) If the assertion is true but the reason is false.

(d) If both the assertion and the reason are false.

Q11. Assertion: Stainless steel pans are usually provided with copper bottoms.

Reason: Copper is a better conductor of heat than the stainless steel.

Q12. Assertion: In places with a hot climate, it is advised that the outer walls of houses be painted white.

Reason: White colour reflects heat and the houses do not heat too much.
