

Name: _____ Date: _____

Heat

Q1. How water gets heated when kept on flame?

Ans. _____

Q2. An iron ball at 40°C is dropped in a mug containing water at 40°C . The heat will
(a) flow from iron ball to water.
(b) not flow from iron ball to water or from water to iron ball.
(c) flow from water to iron ball.
(d) increase the temperature of both.

Ans. _____

Q3. A wooden spoon is dipped in a cup of ice cream. Its other end
(a) becomes cold by the process of conduction.
(b) becomes cold by the process of convection.
(c) becomes cold by the process of radiation.
(d) does not become cold.

Ans. _____

Q4. Stainless steel pans are usually provided with copper bottoms. The reason for this could be that
(a) copper bottom makes the pan more durable.
(b) such pans appear colourful.
(c) copper is a better conductor of heat than the stainless steel.
(d) copper is easier to clean than the stainless steel.

Ans. _____

Heat

Q1. How water gets heated when kept on flame?

Ans. When water is heated, the water near the flame gets hot. Hot water rises up. The cold water from the sides moves down towards the source of heat. This water also gets hot and rises and water from the sides moves down. This process continues till the whole water gets heated. This mode of heat transfer is known as convection.

Q2. An iron ball at 40°C is dropped in a mug containing water at 40°C . The heat will

- (a) flow from iron ball to water.
- (b) not flow from iron ball to water or from water to iron ball.
- (c) flow from water to iron ball.
- (d) increase the temperature of both.

Ans. (b) not flow from iron ball to water or from water to iron ball.

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- (b) becomes cold by the process of convection.
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- (d) does not become cold.

Ans. (d) does not become cold.

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Ans. (c) copper is a better conductor of heat than the stainless steel.