

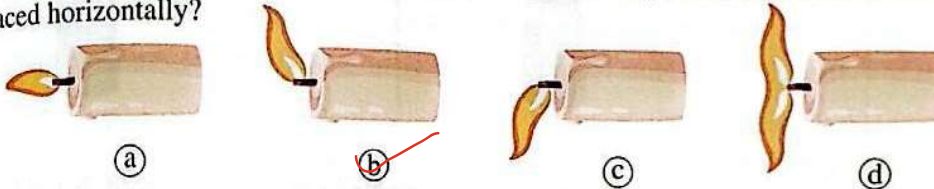
- 16 In a microwave oven, the main way by which microwaves propagate from the waves generator to the food is
- (a) conduction
 - (b) convection
 - (c) radiation
 - (d) conduction and radiation

- 17 In the opposite figure, the smoke released from the incense stick rises upward due to its low
- (a) molecules kinetic energy
 - (b) molecules speed
 - (c) density
 - (d) temperature



- 18 When a pot of water is heated, the direction of heat transfer between the water molecules is
- (a) downwards only
 - (b) upwards only
 - (c) upwards and downwards
 - (d) in all directions

- 19 Which of the following figures represents correctly the shape of the flame of a candle placed horizontally?



- 20 When some birds fly without flapping their wings, they depend on
- (a) the rising warm air currents due to convection
 - (b) the rising cold air currents due to convection
 - (c) the descending warm air currents due to convection
 - (d) the moving air currents opposite to its flying direction

- 21 Two metal spheres (A) and (B) of the same mass. Sphere (A) is made of iron and its specific heat is 450 J/kg.K and sphere (B) is made of aluminum and its specific heat is 897 J/kg.K , if both spheres are placed on a stove and heated for the same time interval, then brought into contact with each other. Which of the following choices is correct?

	Direction of heat transfer from the sphere	Mechanism of heat transfer
(a)	(A) to (B)	Convection
(b)	(B) to (A)	Conduction
(c)	(A) to (B)	Conduction
(d)	(B) to (A)	Convection