

Section A

There are 33 questions. Questions marked with * involve knowledge of the extension component.

1. Water in a kettle is heated on a stove with a constant power. In practice, which of the following factors affect the rate of change of temperature of the water before the water boils?
- (1) Mass of the water
 - (2) Mass of the kettle
 - (3) Initial temperature of the water
- A. (1) and (2) only
 - B. (1) and (3) only
 - C. (2) and (3) only
 - D. (1), (2) and (3)
2. A refrigerator lowers the temperature of the inside of the refrigerator as its refrigerant absorbs latent heat of vaporization. In which of the following processes does the refrigerant absorb latent heat of vaporization?
- A. Boiling of refrigerant
 - B. Freezing of refrigerant
 - C. Melting of refrigerant
 - D. Condensation of refrigerant
3. Which of the following descriptions about water molecules in a beaker of water at 50 °C is correct?
- A. They have a wide range of speeds. All of them are unable to leave the water surface as there are attractive forces between them.
 - B. They have a wide range of speeds. All of them can leave the water surface as there are no intermolecular forces between them.
 - C. They have a wide range of speeds. Only those that travel sufficiently fast can leave the water surface as there are attractive forces between them.
 - D. They all travel at the same speed, which is not high enough for any of them to leave the water surface as there are attractive forces between them.

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