

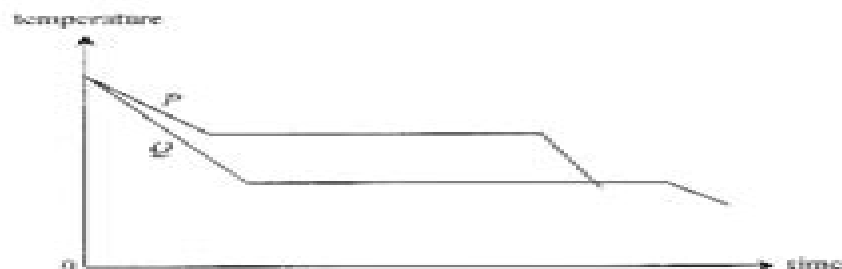
# Section A

There are 33 questions.

1. An electric heater has a rated power of 16 kW. The efficiency of water heating is 75%. If water at 20°C flows at a steady rate of 9 kg per minute, calculate the final temperature of water after heating, given that the specific heat capacity of water is  $4200 \text{ J kg}^{-1} \text{ }^{\circ}\text{C}^{-1}$ .

- A. 37°C
- B. 39°C
- C. 41°C
- D. 43°C

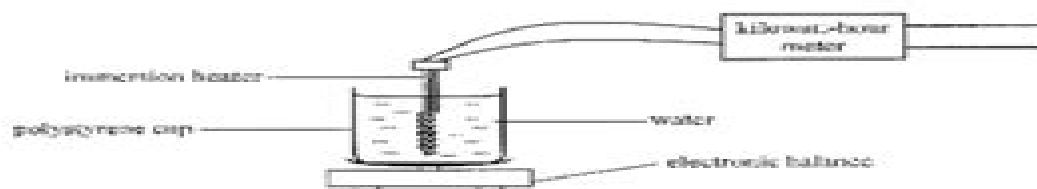
2.



The above graph shows the variation in temperature of two liquids *P* and *Q* when they are cooled in air at the same rate. Which of the following deductions is NOT correct?

- A. The freezing point of *P* is higher than that of *Q*.
- B. The specific heat capacity of *P* in liquid state is larger than that in solid state.
- C. The heat capacity of liquid *P* is greater than that of liquid *Q*.
- D. The specific latent heat of fusion of *P* is smaller than that of *Q*.

3. In an experiment to measure the specific latent heat of vaporization  $L_v$  of water, a kilowatt-hour meter is used to measure the energy supplied to an immersion heater. An electronic balance is used to measure the change of the mass.



The result obtained is found to be smaller than the actual value of  $L_v$ . Which of the following may be the reason?

- A. The boiling is so vigorous that some water splashes out of the cup.
- B. There is heat lost to the surrounding air during the boiling.
- C. The temperature of the water does not reach the boiling point when the kilowatt-hour meter starts reading.
- D. Some water vapour condenses on the upper part of the heater and drips back into the cup.

# 2013 Dse Physics Paper 1a

**Zhe Xu**



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