



ALEXANDER ROAD HIGH SCHOOL

FEBRUARY 2019

45 MIN

PHYSICAL SCIENCE CONTROL TEST MEMO

MH

TOTAL = 40

GRADE 10

SECTION A

QUESTION 1: Multiple choice

- 1.1 C
- 1.2 B
- 1.3 C
- 1.4 B
- 1.5 A
- 1.6 A
- 1.7 C
- 1.8 C
- 1.9 D
- 1.10 D

SECTION B

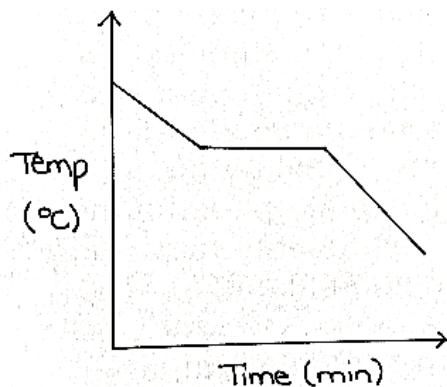
QUESTION 2:

- 2.1.1 Temperature (1)
- 2.1.2 Time (1)
- 2.2.1 liquid (1)
- 2.3.1 condensation (1)
- 2.3.2 freezing / solidifying (1)
- 2.4.1 There is a liquid phase at CD.

or

The temperature is constant at two stages indicating 2 phase changes. (2)

2.4.2



One flat area ✓

Correct trend ✓

[9]

QUESTION 3:

3.1 Boiling happens at fixed temperature, evaporation at any temperature.
Temperature is constant during boiling, evaporation causes cooling.
Boiling happens throughout the liquid, evaporation happens at the surface.
Boiling is a relatively fast process, evaporation takes place over a long time.
ANY TWO

(2)

3.2.1 The temperature ✓ where the vapour pressure of the liquid is equal to the atmospheric pressure. ✓

(2)

3.2.2 Higher altitude ✓, lower atmospheric pressure ✓

Less energy required for vapour pressure to be equal to atmospheric pressure. ✓
Boils at lower temperature.

(3)

[7]

QUESTION 4:

4.1 compound

4.2 element

4.3 mixture

4.4 element

(4x1)

[4]

TOTAL [40]