

**QUESTION 2**

- 2.1 The graph of molecular size versus the boiling point is given below.  
The letters **A**, **B** and **C** represent the compounds  $\text{CH}_4$ ,  $\text{C}_2\text{H}_6$  and  $\text{C}_3\text{H}_8$  respectively.



- 2.1.1 Define the term *boiling point*. (2)
- 2.1.2 Describe the trend in the boiling points of the compounds as shown by the graph. (2)
- 2.1.3 Explain the answer to QUESTION 2.1.2 by referring to MOLECULAR SIZE, TYPE and STRENGTH of INTERMOLECULAR FORCES. (3)
- 2.1.4 Which ONE of the compounds (**A**, **B** or **C**) has the HIGHEST vapour pressure? Explain the answer by referring to the data on the graph. (2)
- 2.2 Consider the two molecules in the table below.

NAME OF SUBSTANCE	FORMULA	MOLACULAR MASS (g)	BOILING POINT ( $^{\circ}\text{C}$ )
Ammonia	$\text{NH}_3$	17	- 33
Phosphine	$\text{PH}_3$	x	- 87,4

- 2.2.1 Determine the molecular mass (x) of phosphine (1)
- 2.2.2 Explain the difference in the boiling points by referring to the TYPE and STRENGTH of INTERMOLECULAR FORCES. (3)

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**Marcel A. Müller**



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