

Chemistry  
Advanced Subsidiary  
PAPER 1: Core Inorganic and Physical Chemistry

Diagram Booklet

In the boxes below, write your name, centre number and candidate number.

Surname					
Other names					
Centre Number					
Candidate Number					

## INSTRUCTIONS

There may be spare copies of some diagrams in case you need them.

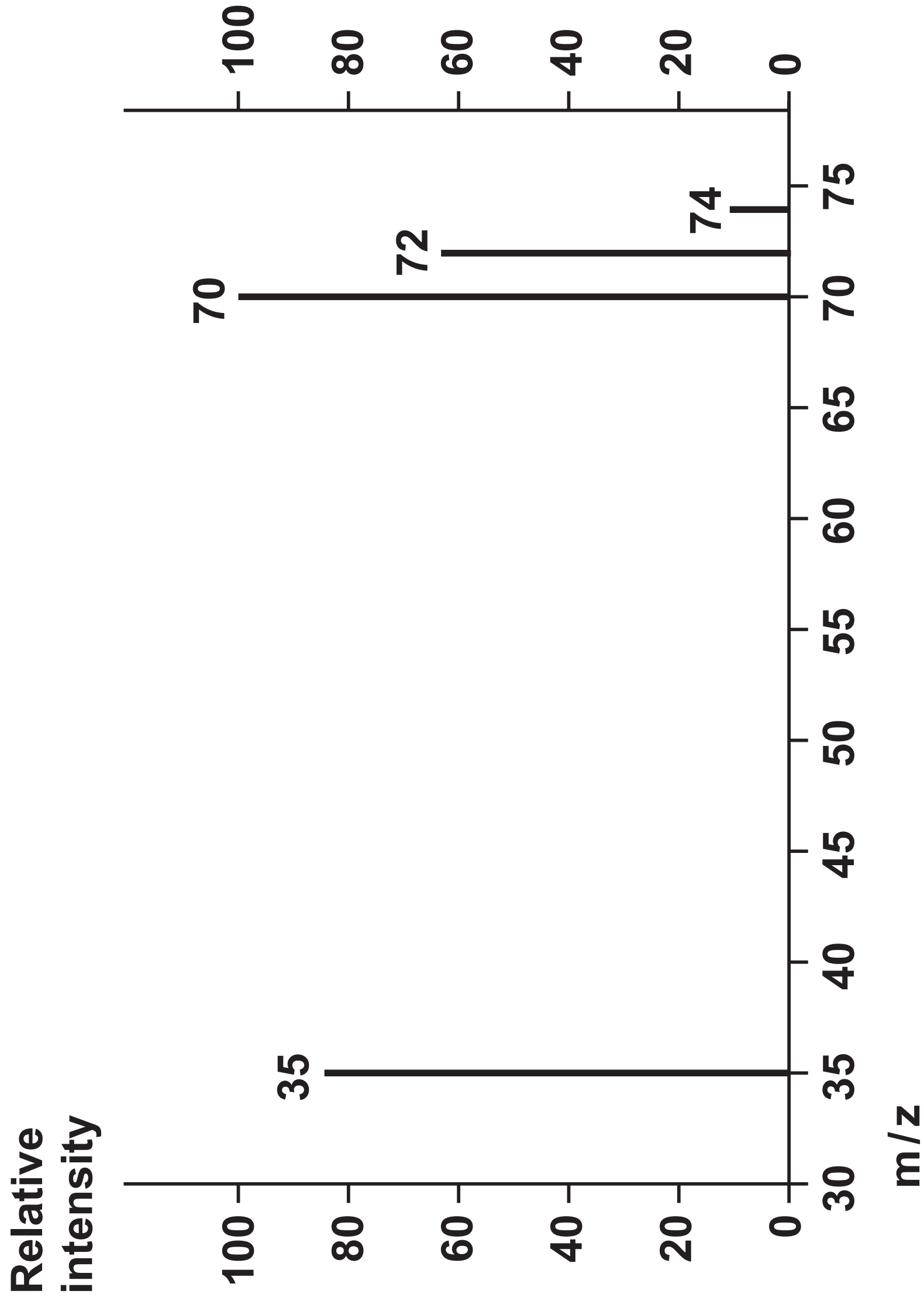
**THIS DIAGRAM BOOKLET MUST BE RETURNED WITH THE QUESTION PAPER AT THE END OF THE EXAMINATION.**

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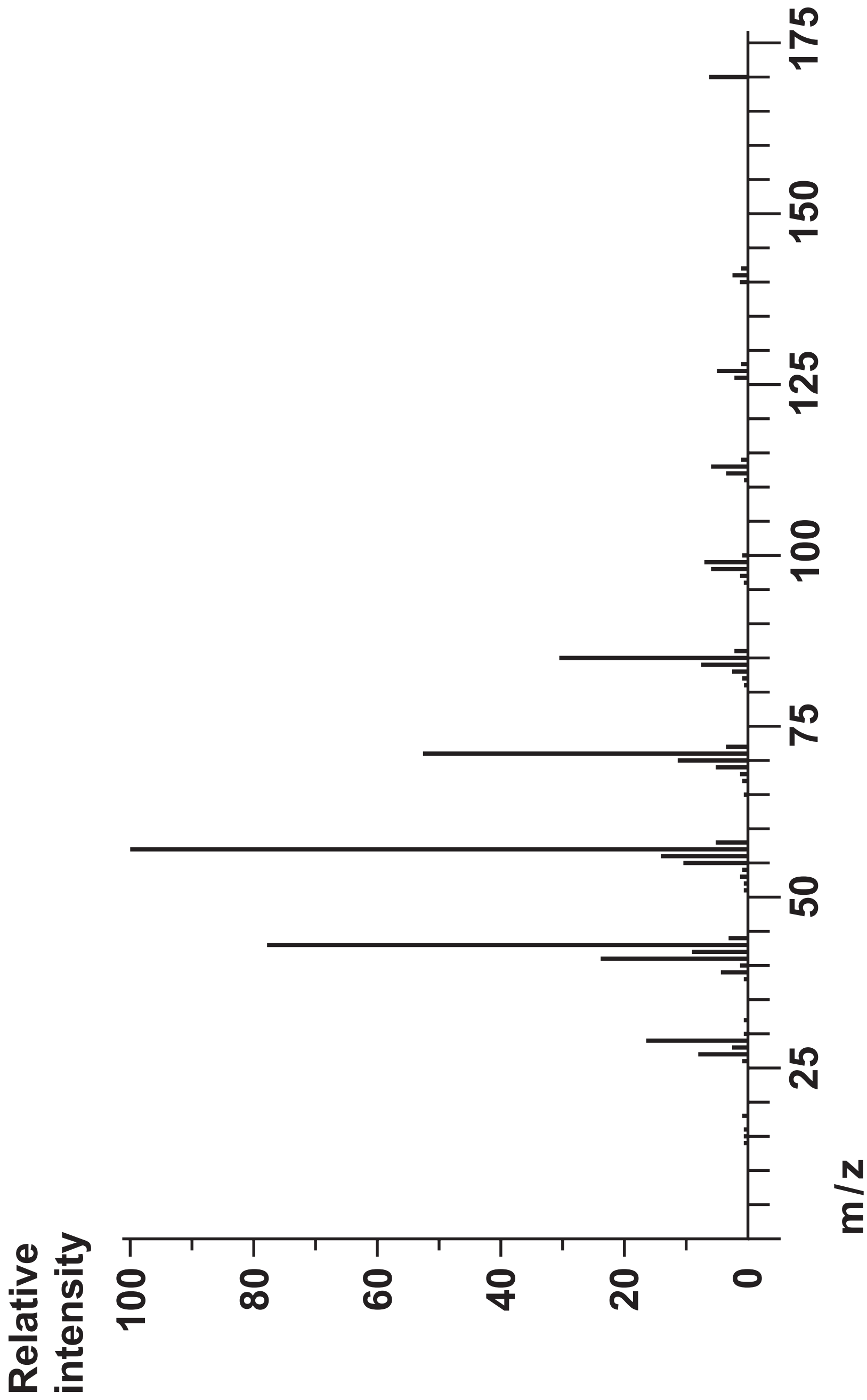
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Question 4(b)



Question 4(c)



## Question 5(b)

Compound	Structural formula	Boiling temperature / °C
hexane	$\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_3$	69
2-methylpentane	$\begin{array}{c}\text{CH}_3\text{CH}_2\text{CH}_2\text{CHCH}_3 \\   \\ \text{CH}_3\end{array}$	61
3-methylpentane	$\begin{array}{c}\text{CH}_3\text{CH}_2\text{CHCH}_2\text{CH}_3 \\   \\ \text{CH}_3\end{array}$	63

Question 6(a) and 6(b)

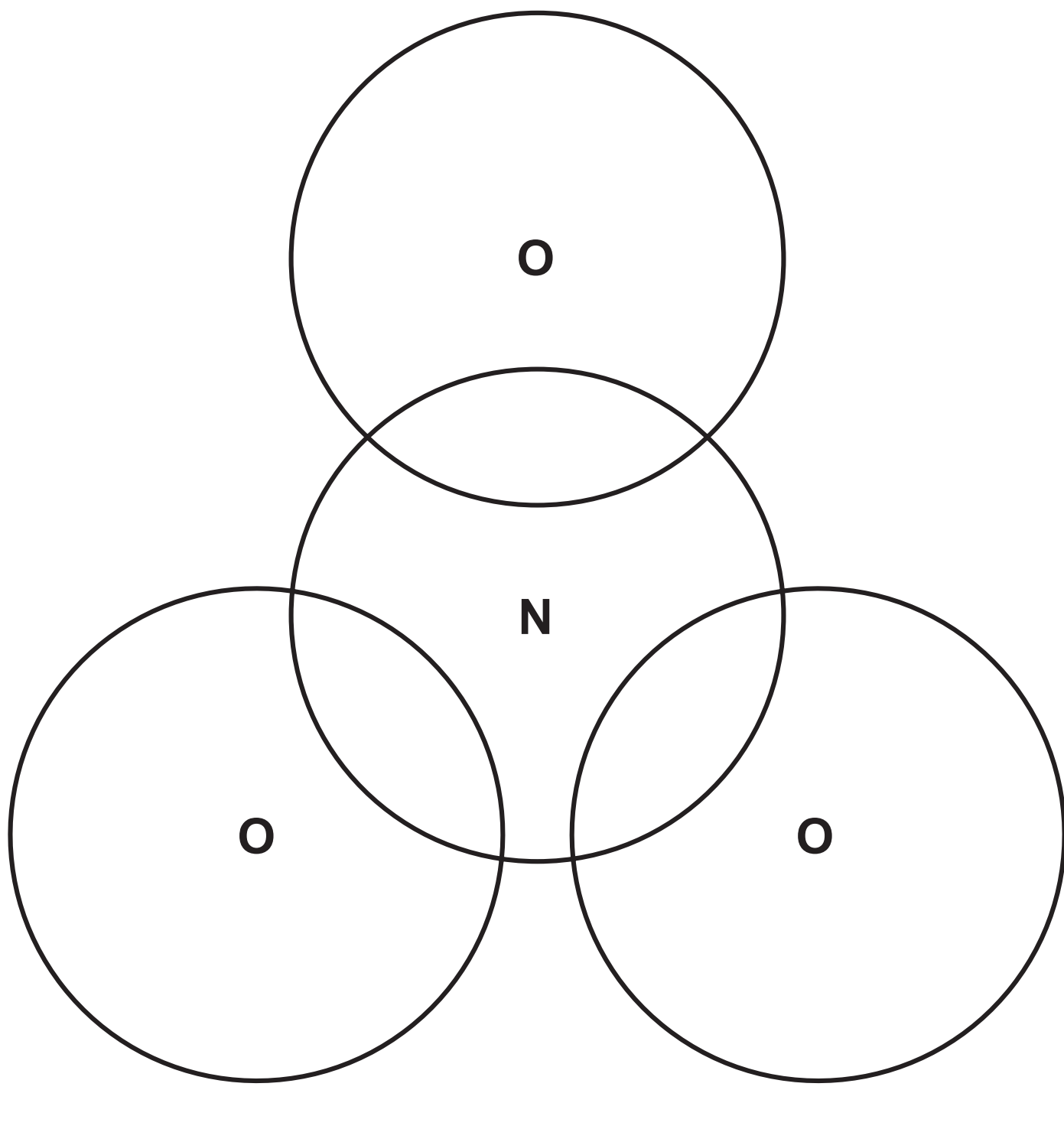
Substance	Structure	Bonding	Melting temperature / K
silicon(IV) oxide	giant	covalent	1883
potassium chloride			1043
iron		metallic	1808
iodine		covalent	387

Question 6(a) and 6(b)

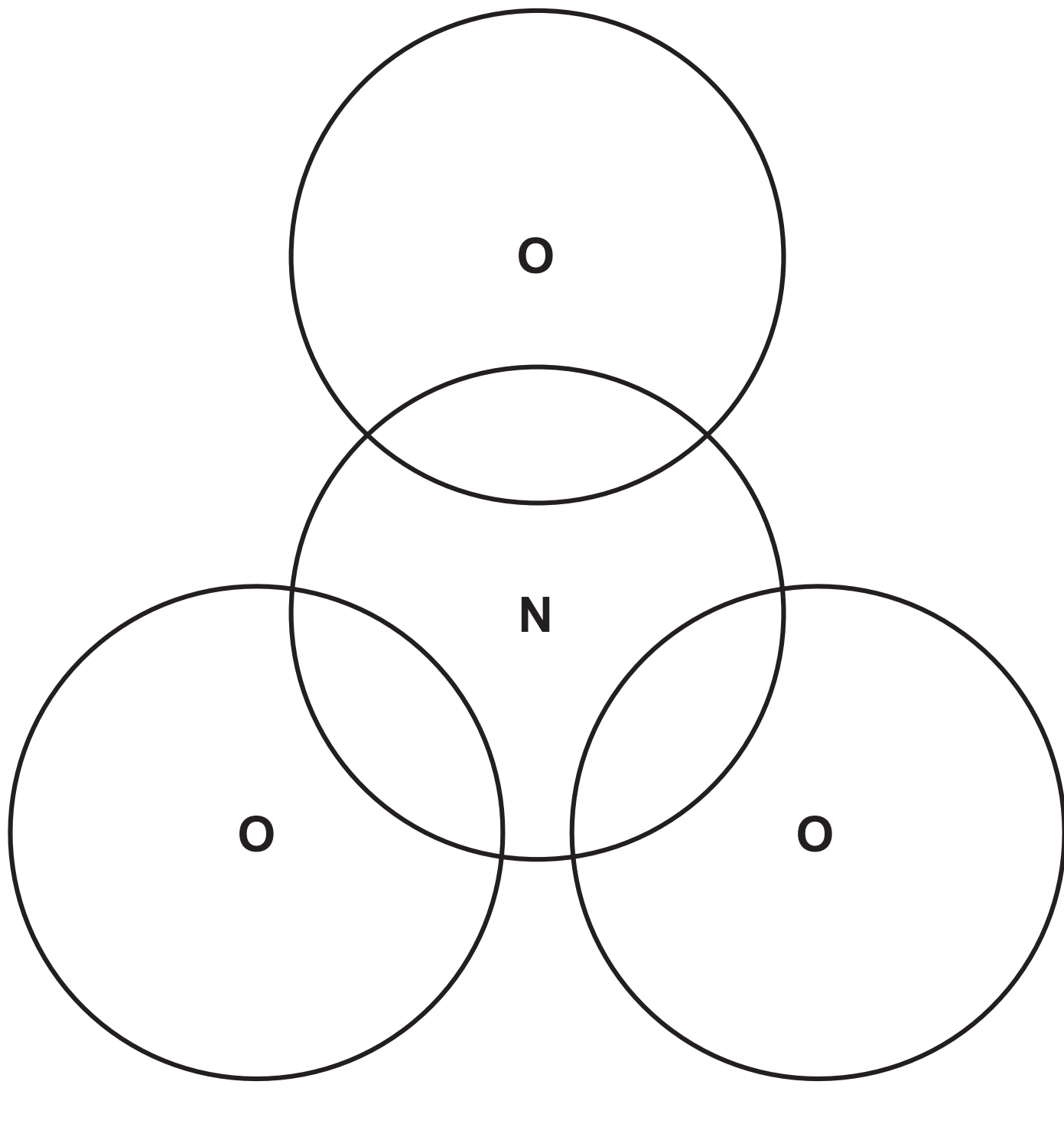
Substance	Structure	Bonding	Melting temperature / K
silicon(IV) oxide	giant	covalent	1883
potassium chloride			1043
iron		metallic	1808
iodine		covalent	387



## Question 7(c)(i)



## Question 7(c)(i)



Question 9(b)

