

Chemistry
UNIT: 4CH1
Science (Double Award) 4SD0
PAPER: 1C

Tuesday 14 November 2023 – Morning

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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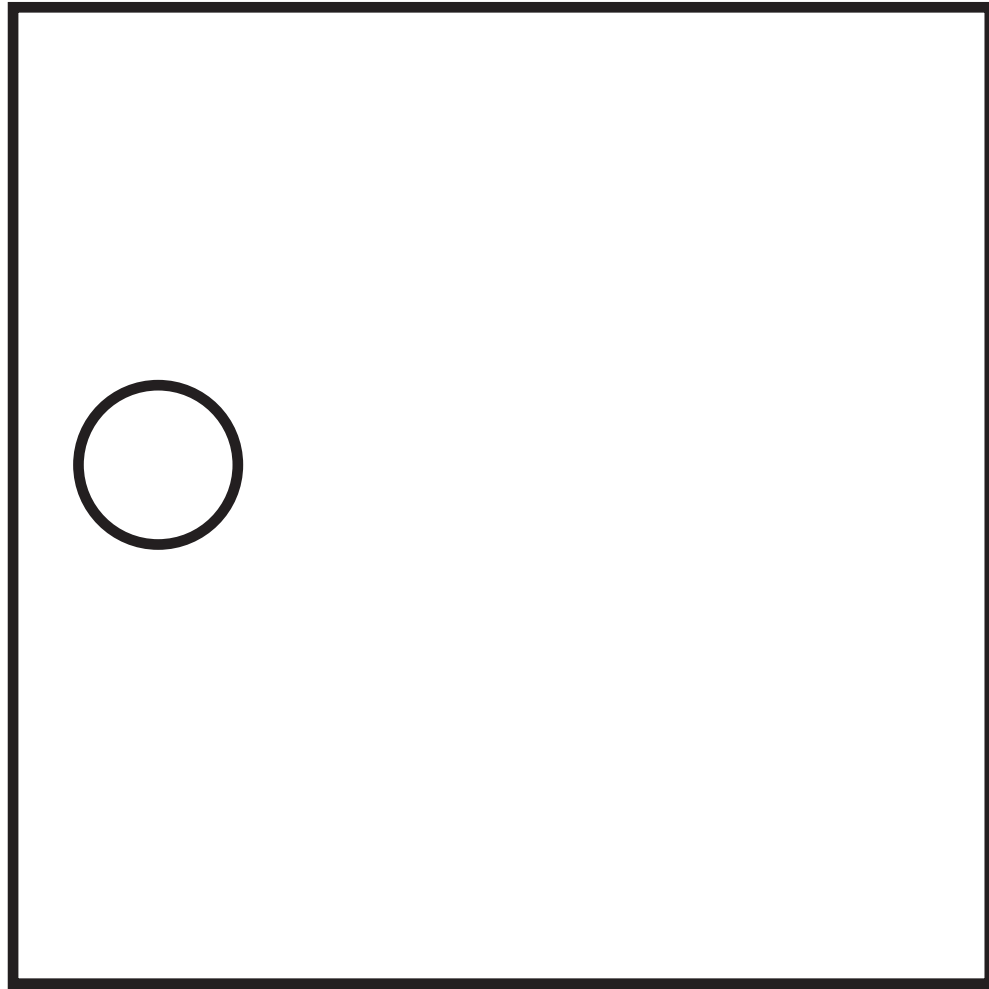
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Spare Copies

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Question 1(a)



Question 2(a)

TABLE 1

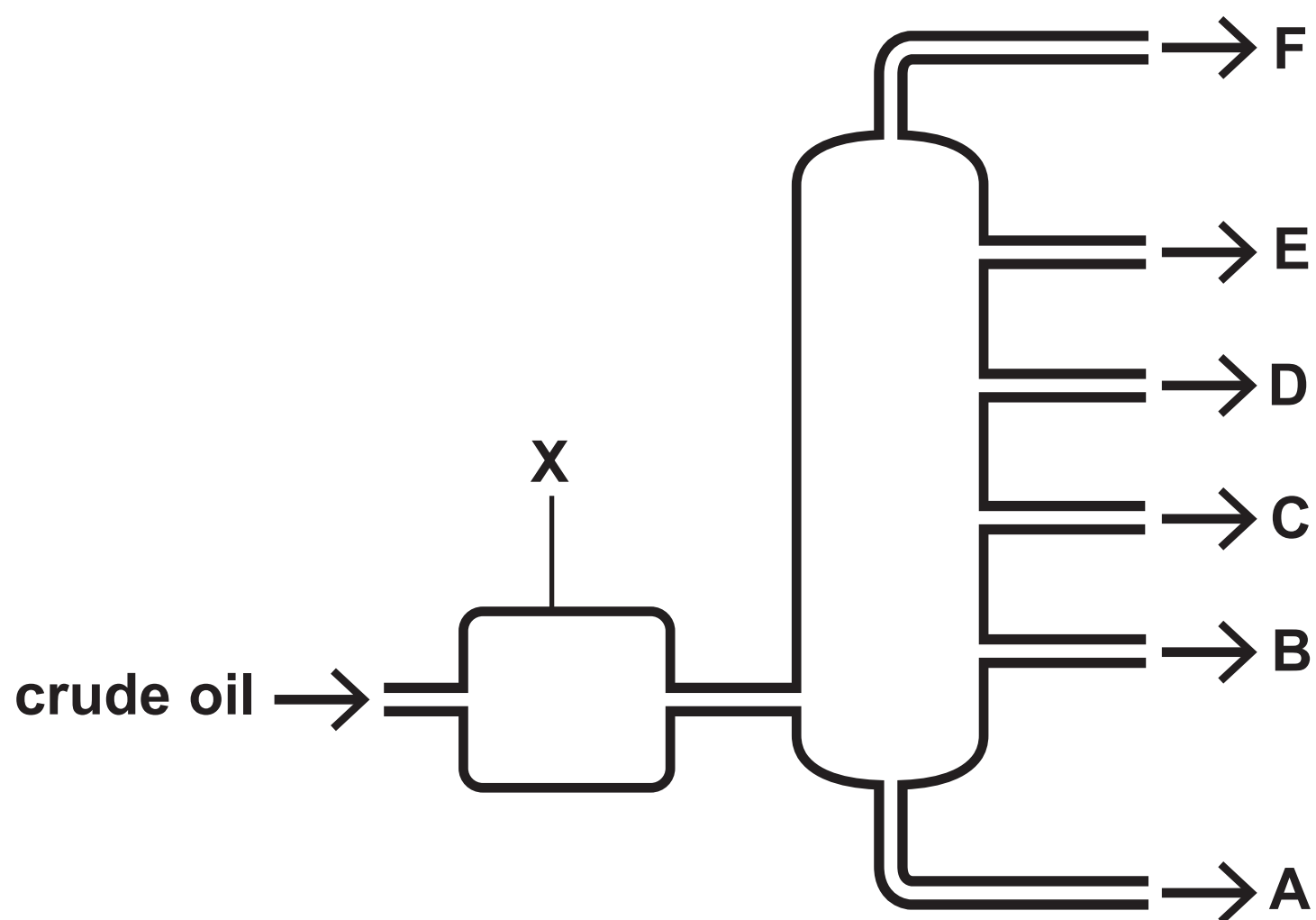
	Electron	Proton	Neutron
Relative mass	0·0005		
Relative charge			0

Question 2(b)

TABLE 2

Atom or ion	Protons	Neutrons	Electrons
P	3	4	2
Q	5	5	5
R	5	6	5
S	7	7	7
T	8	8	8
U	8	8	10

Question 3(a)



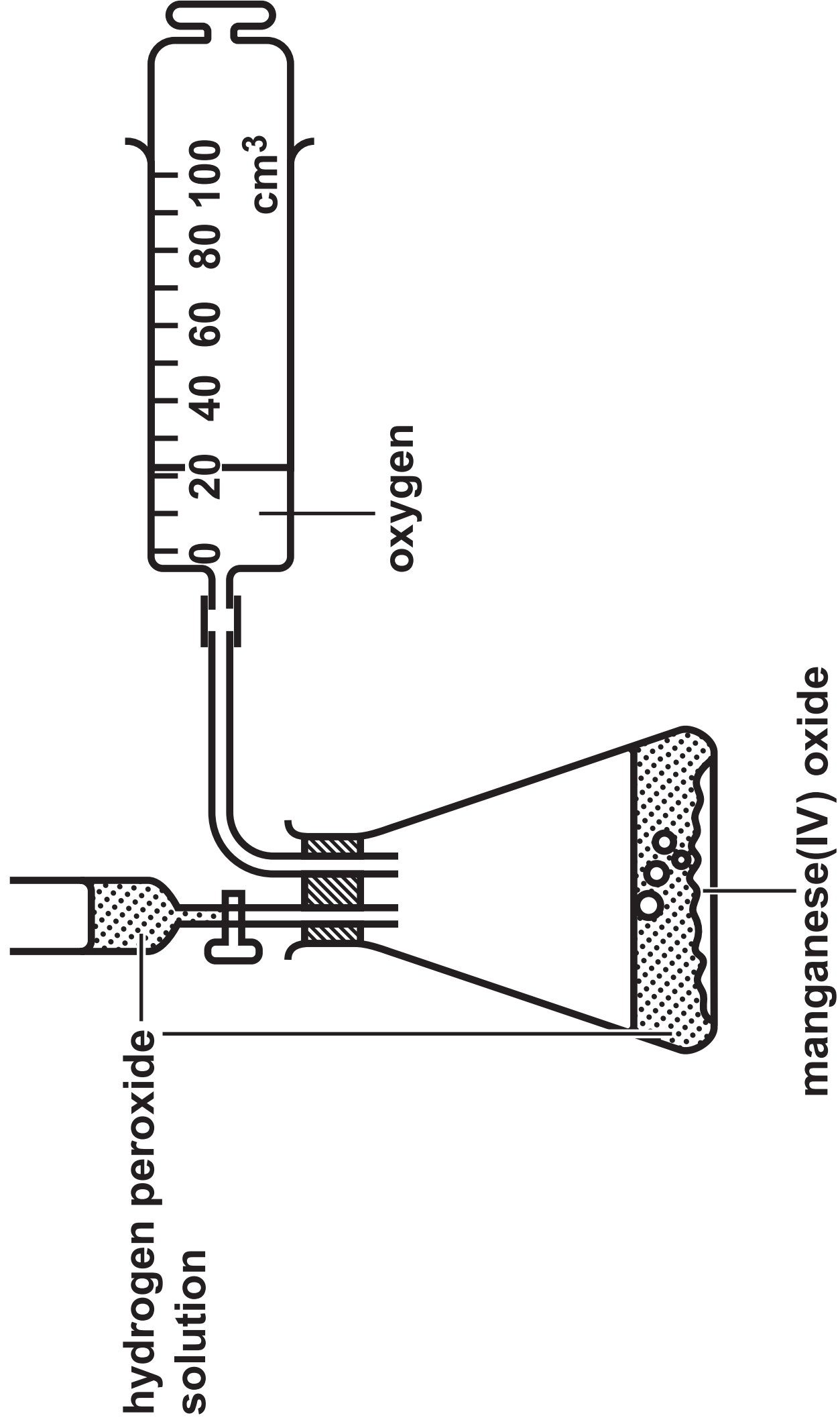
Question 4(a)

Name of gas	argon	carbon dioxide	hydrogen	oxygen	nitrogen
Formula of gas	Ar	CO ₂	H ₂	O ₂	N ₂
M _r of gas	40		2	32	28

Question 5(a)(ii)

Isomer 1	Isomer 2
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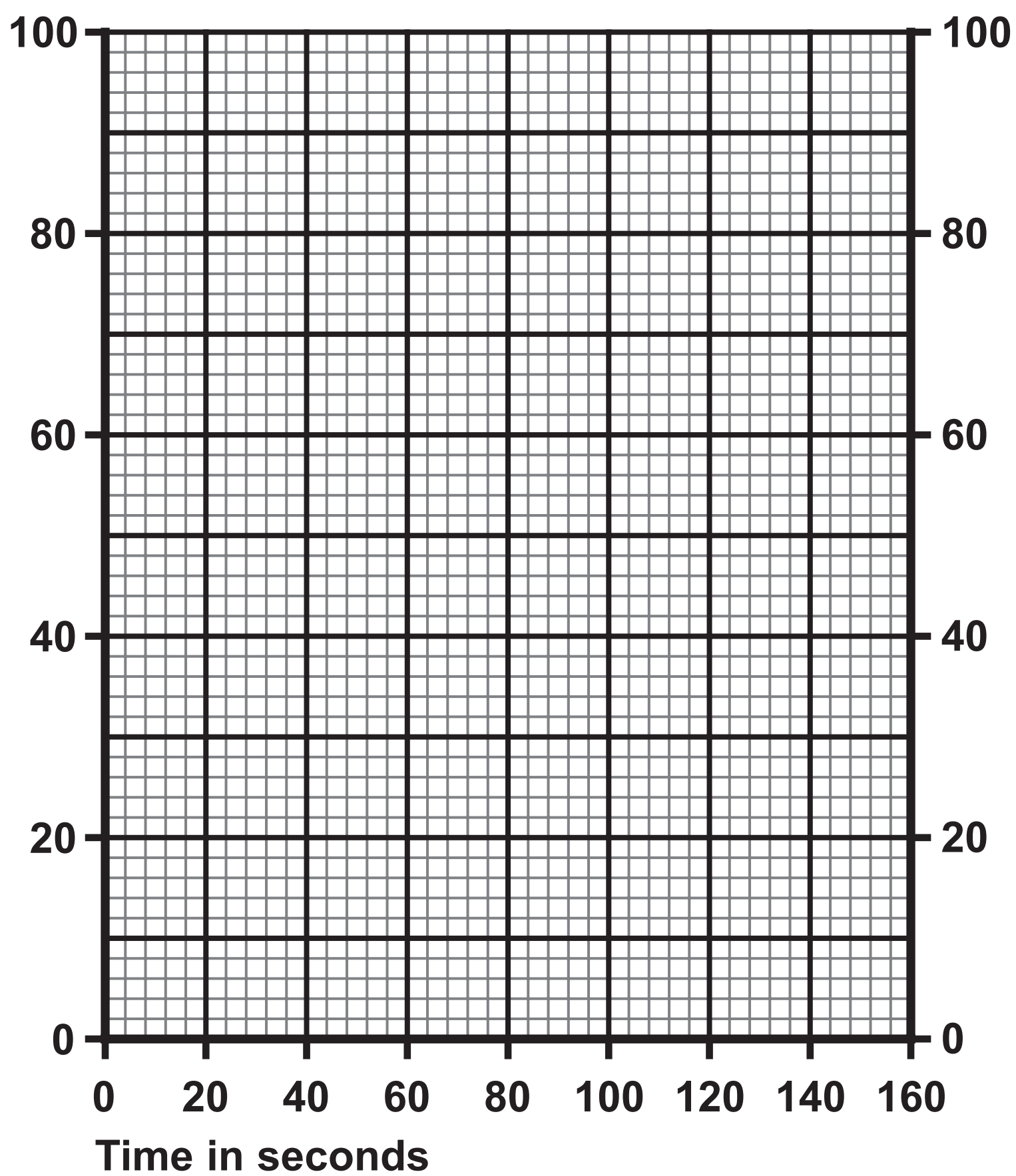
Question 6



Question 6(b)

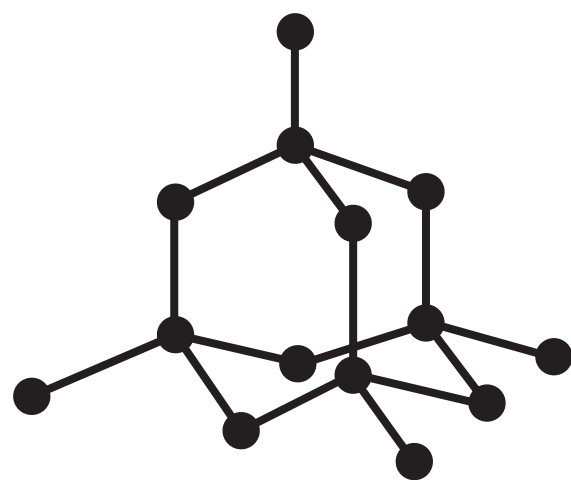
H O O H

Question 6(c) and (d)

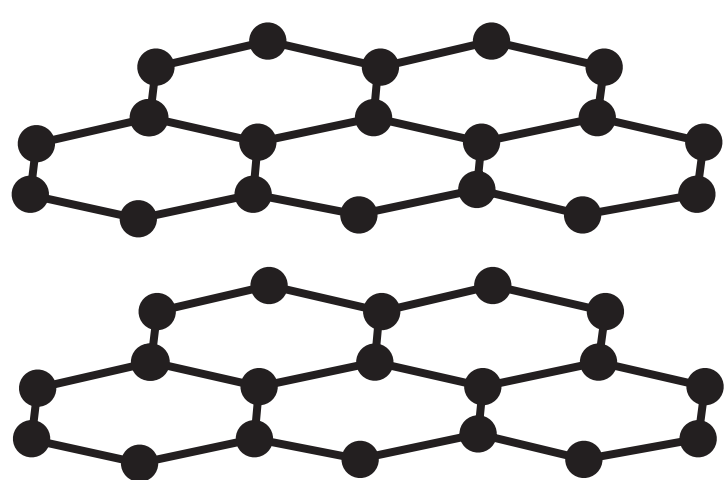
Volume of oxygen in cm^3 

Question 8

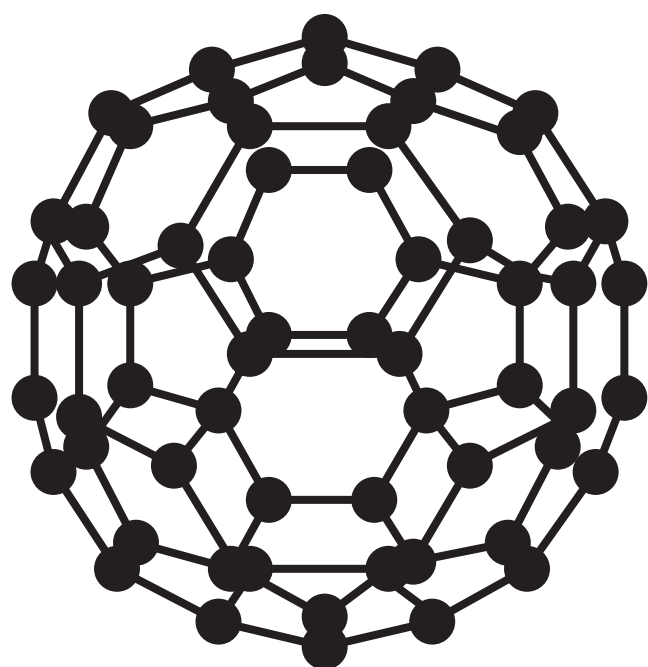
diamond



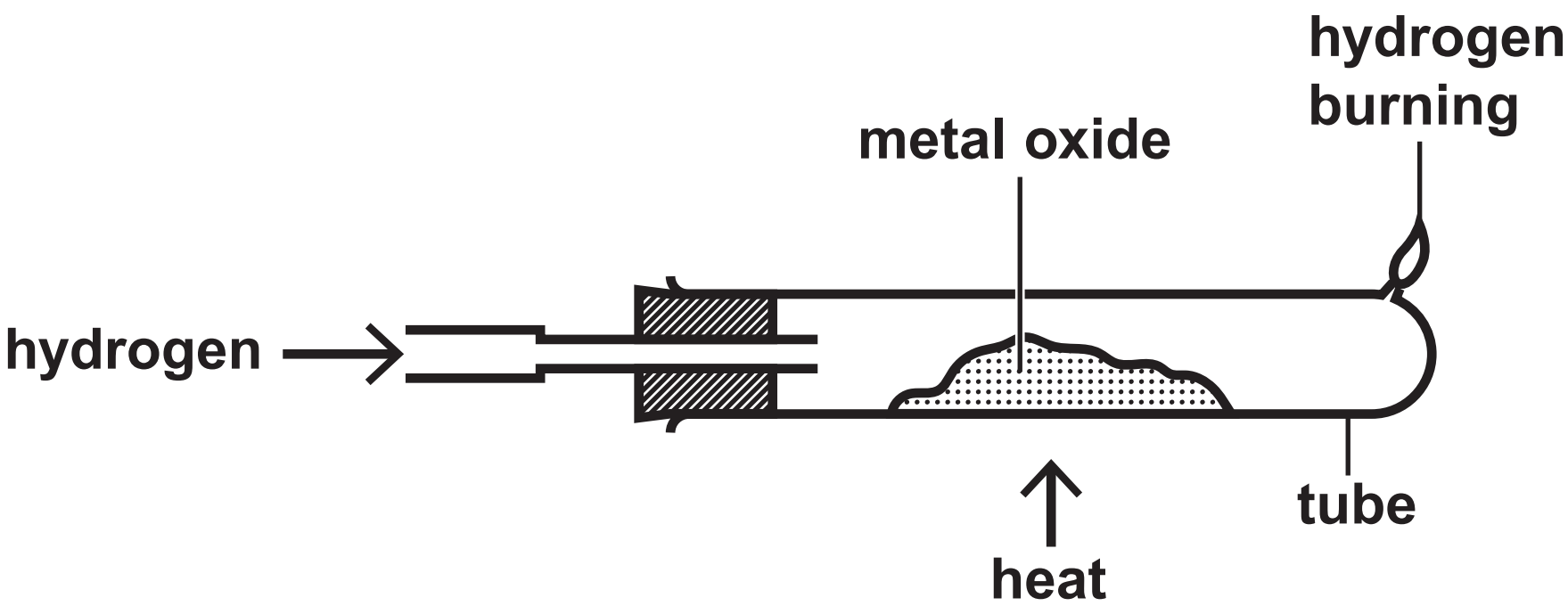
graphite



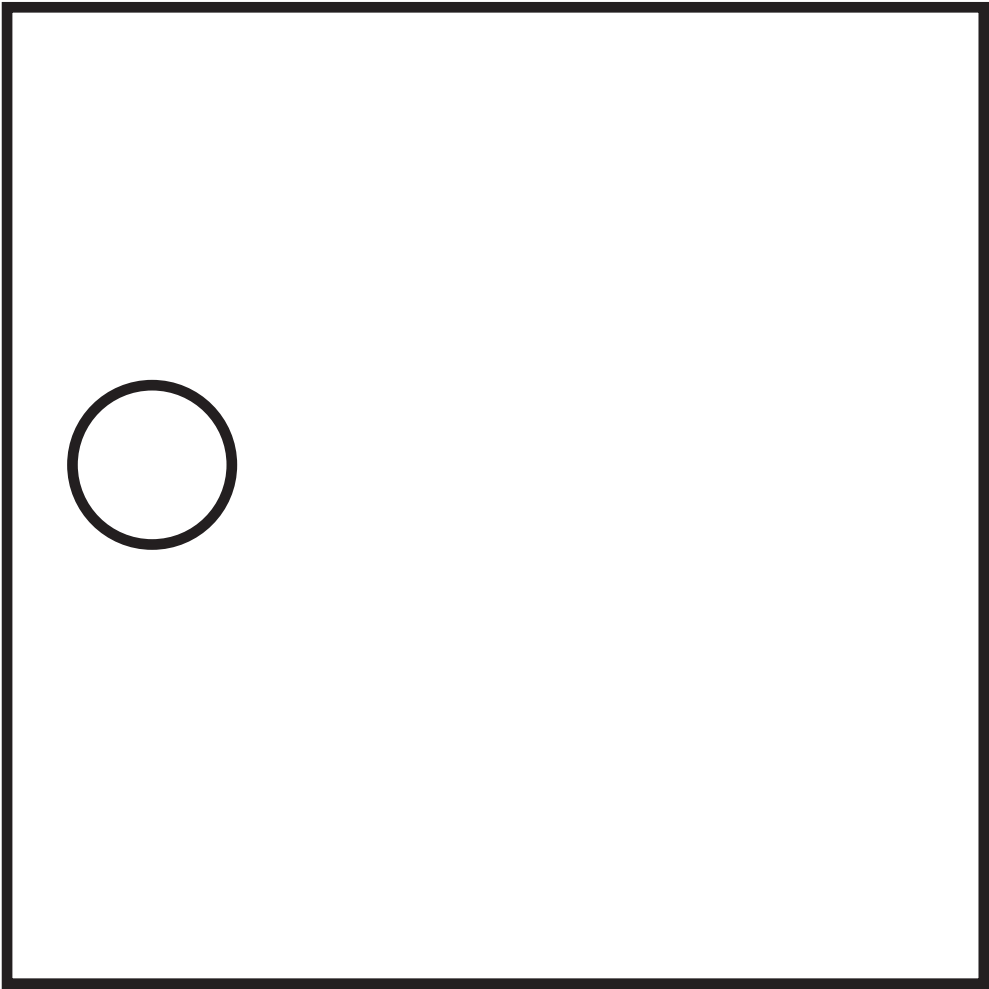
Question 8(d)



Question 9



Question 1(a)



Question 2(a)

TABLE 1

	Electron	Proton	Neutron
Relative mass	0·0005		
Relative charge			0

Isomer 1	Isomer 2
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Question 6(b)

H O O H

Question 6(c) and (d)

Volume of oxygen in cm³

