

Atoms

Question Paper

Level	Pre U
Subject	Chemistry
Exam Board	Cambridge International Examinations
Topic	Atoms-Physical Chemistry
Booklet	Question Paper

Time Allowed: 16 minutes

Score: /13

Percentage: /100

Grade Boundaries:

1 Fig. 1.1 shows the structures of two allotropes of carbon.

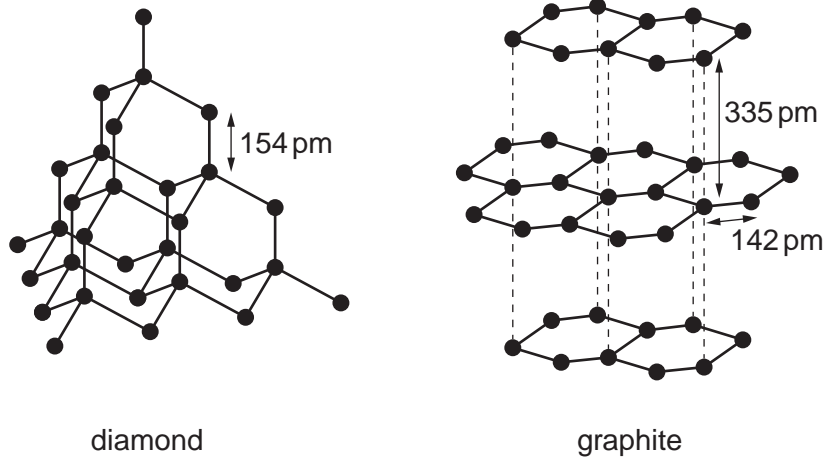


Fig. 1.1

(a) With reference to Fig. 1.1

(i) explain the meaning of the term *allotropes*.

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 [1]

(ii) describe the bonding in graphite and explain the difference between the two bond lengths shown in its structure.

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 [3]

(iii) State how and explain why the hardness and electrical conductivity of each allotrope differ.

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 [4]

