

AQA, OCR, Edexcel

GCSE Science

GCSE Chemistry

**Chemical Bonds- Covalent
Answers**

M M E

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Total Marks: /16

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Q1: What is a covalent bond?

A= A bond whereby atoms share electrons.

(1 mark)

Q2: Mark on the line the strength of the bond.

A= Strong

(1 mark)

Q3: What is the name of a large repeating molecule consisting of covalent bonds?

A= Polymer

(1 mark)

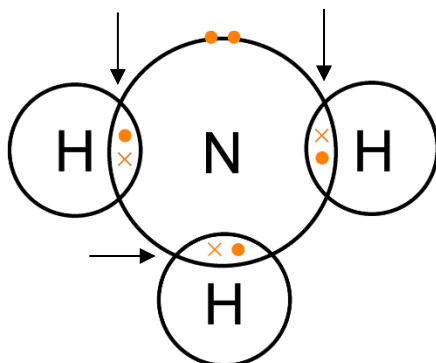
Q4: Give an example of a large covalent structure.

A= Diamond/Silicon Dioxide.

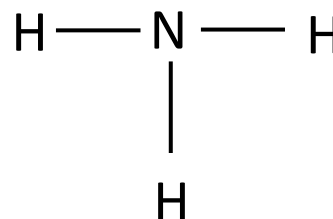
(1 mark)

Q5: Ammonia exists as one nitrogen atom and three hydrogen atoms joined by covalent bonds (NH_3). Complete the ammonia diagrams.

a)

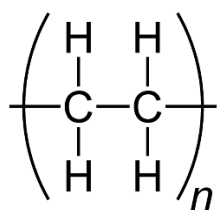


b)



(4 marks)

Q6: What does this diagram represent?



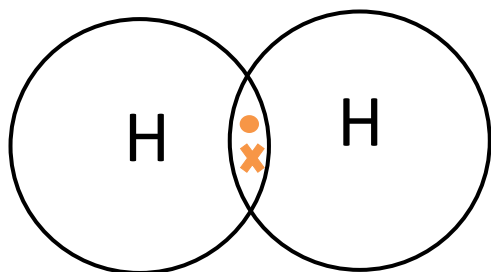
A= Polymer/Accept Hydrocarbon

(1 mark)

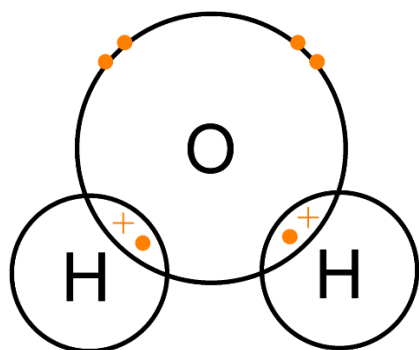
Q7: Draw a dot and cross diagram for the following molecules

- a) Hydrogen
- b) Water
- c) Methane

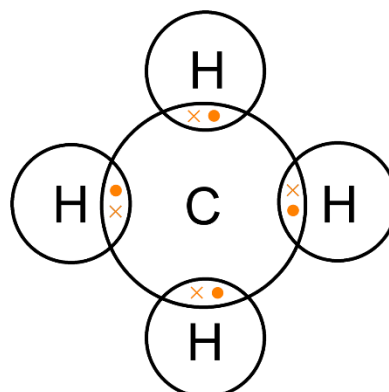
Hydrogen:



Water:



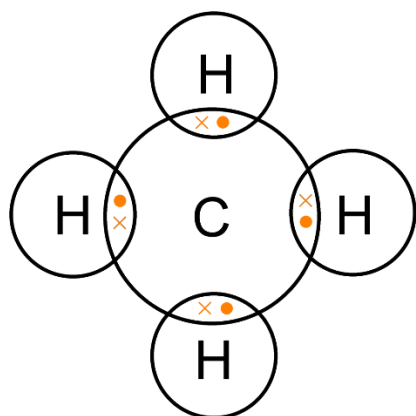
Methane:



(6 marks)

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Q8: State the molecular formula for the following diagram.



(1 mark)