

# IBMYP Chemistry Sample Paper 2



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# Group 5: Chemistry On-Screen Examination

**Total Marks: 100** 

# Instructions

- The on-screen examination has not yet started.
- Your time will begin once you have clicked the Start button below. Do not click Start until instructed to do so.
- Before the examination begins you are given 5 minutes to become familiar with its structure. Please navigate around the examination, taking note of the length of each task and question. You have 2 hours to complete the examination.
- There are 10 separate questions in this examination. Each question may have subparts. Answer all the questions in the response boxes provided. The maximum mark for this examination is 100 marks.
- As you progress through the questions, your answers are automatically saved.
- When 2 hours has ended. you will no longer be able to answer any questions.

# Question 1: 4 marks

1. a) Identify the element with the following electron configuration: 1s<sup>2</sup> 2s<sup>2</sup> 2p<sup>6</sup> 3s<sup>2</sup> 3p<sup>6</sup> 4s<sup>2</sup> 3d<sup>10</sup> 4p<sup>6</sup>. (1 mark)

Answer: Element: Argon (Ar)

b) Complete the following table by providing the group and period for each element: (2 marks)

Element	Group	Period
Calcium		
Fluorine		

### Answer:

Element	Group	Period
Calcium	Group 2	Period 4
Fluorine	Group 17	Period 2



c) The two elements shown below are Sodium (left) and Silver (right). Match the ools in Column B. (1





mark)

(Sodium)

(Silver)

Column A	Column B
Sodium	Na
Silver	Ag

### Answer:

Column A	Column B
Sodium	Na
Silver	Ag

Question 2: 11 marks

- 2. This question is about elements and materials
- a. Choose the correct option for the question below. (1 marks)

i. Which of the following elements is a metalloid?

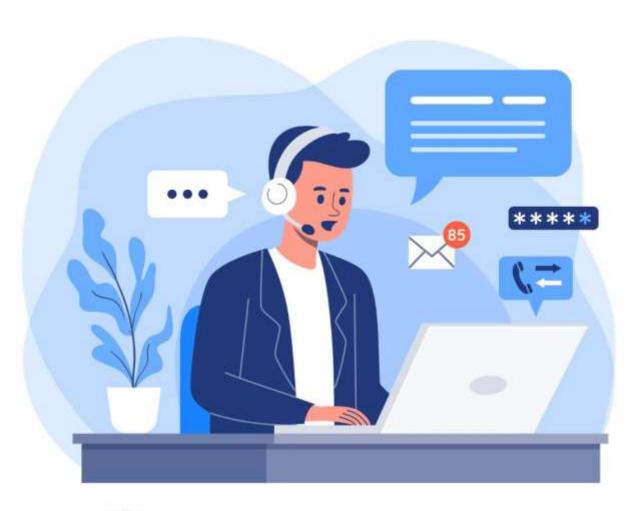
i.Carbon

ii.Oxygen iii.Silicon iv.Sodium

Answer: iii) Silicon

b. The following information is given to a student:







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