

Centre :

Test Series : 04 NOVEMBER 2004 SERIES D

Module : 346005 METALS

Candidate Number :**UCI :****Candidate Name :**

For completion by the Examination Invigilator. Please fill this oval if the candidate is absent:

FOUNDATION TIER

▶ Instructions on how to complete this answer sheet are given on the question paper. Please make sure you follow them carefully. ◀

Questions ONE to FIVE: Choose **one** answer for each of the parts 1 to 4.

QUESTION ONE

1 2 3 4

| | | | | |
|-------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| argon | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| copper | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| potassium | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| transition metals | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

QUESTION TWO

1 2 3 4

| | | | | |
|-------------|-----------------------|-----------------------|-----------------------|-----------------------|
| hot air | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| limestone | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| molten iron | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| waste gases | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

QUESTION THREE

1 2 3 4

| | | | | |
|---------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| hydrochloric acid | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| potassium hydroxide | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| sodium chloride | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| sulphuric acid | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

QUESTION FOUR

1 2 3 4

| | | | | |
|-----------|-----------------------|-----------------------|-----------------------|-----------------------|
| carbon | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| copper | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| magnesium | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| sodium | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

QUESTION FIVE

1 2 3 4

| | | | | |
|-----------|-----------------------|-----------------------|-----------------------|-----------------------|
| aluminium | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| copper | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| iron | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| potassium | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

Questions SIX and SEVEN: Choose **two** answers for each question.

QUESTION SIX

| | |
|---|-----------------------|
| potassium chloride dissolves in water to produce an acid solution | <input type="radio"/> |
| potassium chloride, in aqueous solution, will conduct electricity | <input type="radio"/> |
| potassium chloride is a coloured compound | <input type="radio"/> |
| potassium chloride is insoluble in water | <input type="radio"/> |
| potassium reacts with the non-metal element chlorine to form potassium chloride | <input type="radio"/> |

QUESTION SEVEN

| | |
|--|-----------------------|
| about half the elements are metals | <input type="radio"/> |
| columns of elements with similar properties are called Groups | <input type="radio"/> |
| most of the elements are arranged in order of their relative atomic masses | <input type="radio"/> |
| the metals are in Groups 4 and 7 | <input type="radio"/> |
| the transition elements are in Group 0 | <input type="radio"/> |

Questions EIGHT to TEN: Choose **one** answer for each of the parts 1 to 4.

QUESTION EIGHT

| | A | B | C | D |
|-----|-----------------------|-----------------------|-----------------------|-----------------------|
| 8.1 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 8.2 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 8.3 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 8.4 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

QUESTION NINE

| | A | B | C | D |
|-----|-----------------------|-----------------------|-----------------------|-----------------------|
| 9.1 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 9.2 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 9.3 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 9.4 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

QUESTION TEN

| | A | B | C | D |
|------|-----------------------|-----------------------|-----------------------|-----------------------|
| 10.1 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 10.2 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 10.3 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 10.4 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

HIGHER TIER

Instructions on how to complete this answer sheet are given on the question paper. Please make sure you follow them carefully.

Questions ONE and TWO: Choose **one** answer for each of the parts 1 to 4.

| QUESTION ONE | 1 | 2 | 3 | 4 |
|--------------|-----------------------|-----------------------|-----------------------|-----------------------|
| aluminium | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| copper | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| iron | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| potassium | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

| QUESTION TWO | 1 | 2 | 3 | 4 |
|-----------------|-----------------------|-----------------------|-----------------------|-----------------------|
| carbon dioxide | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| copper chloride | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| iron | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| water | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

Questions THREE and FOUR: Choose **two** answers for each question.

| QUESTION THREE | |
|--|--------------------------|
| about half the elements are metals | <input type="checkbox"/> |
| columns of elements with similar properties are called Groups | <input type="checkbox"/> |
| most of the elements are arranged in order of their relative atomic masses | <input type="checkbox"/> |
| the metals are in Groups 4 and 7 | <input type="checkbox"/> |
| the transition elements are in Group 0 | <input type="checkbox"/> |

| QUESTION FOUR | |
|--|--------------------------|
| copper belongs to Group 1 in the periodic table | <input type="checkbox"/> |
| copper oxide is a base | <input type="checkbox"/> |
| copper oxide is soluble in water | <input type="checkbox"/> |
| copper oxide reacts with sulphuric acid to produce copper chloride | <input type="checkbox"/> |
| many copper salts are coloured | <input type="checkbox"/> |

Questions FIVE to TEN: Choose **one** answer for each of the parts 1 to 4.

| QUESTION FIVE | A | B | C | D |
|---------------|-----------------------|-----------------------|-----------------------|-----------------------|
| 5.1 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 5.2 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 5.3 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 5.4 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

| QUESTION SIX | A | B | C | D |
|--------------|-----------------------|-----------------------|-----------------------|-----------------------|
| 6.1 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 6.2 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 6.3 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 6.4 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

| QUESTION SEVEN | A | B | C | D |
|----------------|-----------------------|-----------------------|-----------------------|-----------------------|
| 7.1 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 7.2 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 7.3 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 7.4 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

| QUESTION EIGHT | A | B | C | D |
|----------------|-----------------------|-----------------------|-----------------------|-----------------------|
| 8.1 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 8.2 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 8.3 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 8.4 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

| QUESTION NINE | A | B | C | D |
|---------------|-----------------------|-----------------------|-----------------------|-----------------------|
| 9.1 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 9.2 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 9.3 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 9.4 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

| QUESTION TEN | A | B | C | D |
|--------------|-----------------------|-----------------------|-----------------------|-----------------------|
| 10.1 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 10.2 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 10.3 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 10.4 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

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