

Centre :

Test Series : 04 NOVEMBER 2004 SERIES D

Module : 346015 MATERIALS AND REACTIONS

**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

|             |                       |                       |                       |                       |
|-------------|-----------------------|-----------------------|-----------------------|-----------------------|
| 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 TWO

1 2 3 4

|          |                       |                       |                       |                       |
|----------|-----------------------|-----------------------|-----------------------|-----------------------|
| compound | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| element  | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| mixture  | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| molecule | <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

|           |                       |                       |                       |                       |
|-----------|-----------------------|-----------------------|-----------------------|-----------------------|
| argon     | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| carbon    | <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 FIVE

1 2 3 4

|                |                       |                       |                       |                       |
|----------------|-----------------------|-----------------------|-----------------------|-----------------------|
| carbon dioxide | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| cement         | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| concrete       | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| slaked lime    | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

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

### QUESTION SIX

|                   |                       |
|-------------------|-----------------------|
| air               | <input type="radio"/> |
| calcium carbonate | <input type="radio"/> |
| concrete          | <input type="radio"/> |
| ethene            | <input type="radio"/> |
| quicklime         | <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                     |
|----------------|-----------------------|-----------------------|-----------------------|-----------------------|
| carbon dioxide | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| cement         | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| concrete       | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| slaked lime    | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

| QUESTION TWO | 1                     | 2                     | 3                     | 4                     |
|--------------|-----------------------|-----------------------|-----------------------|-----------------------|
| P            | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Q            | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| R            | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| S            | <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="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"/> |

| QUESTION FOUR                                      |                       |
|--|-----------------------|
| calcium carbonate > calcium oxide + carbon dioxide | <input type="radio"/> |
| calcium oxide + water > calcium hydroxide          | <input type="radio"/> |
| decane > ethene + octane                           | <input type="radio"/> |
| ethene + oxygen > carbon dioxide + water           | <input type="radio"/> |
| ethene > poly(ethene)                              | <input type="radio"/> |

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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