



**GCSE**

**Science A (4461) /  
Biology (4411)**

*Specification A*

**BLY1AP, BL1ASF & BL1ASH**

**Mark Scheme**

*2012 Examination – November Series*

**The blank answer sheet for this component can be found at the end of this document.**

This component is an objective test for which the following list indicates the correct answers used in marking the students' responses.

Further copies of this Mark Scheme are available to download from [aqa.org.uk](http://aqa.org.uk)

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**GCSE**

**SCIENCE A (4461)/BIOLOGY (4411)**

Objective Test Answer Key

**BLY1AP (Human Biology)**

Foundation Tier

| Question | Key      |                     |          |          |
|----------|----------|---------------------|----------|----------|
| One      | <b>A</b> | egg                 | <b>1</b> |          |
|          | <b>B</b> | embryo              | <b>4</b> |          |
|          | <b>C</b> | fertilised egg      | <b>3</b> |          |
|          | <b>D</b> | sperm               | <b>2</b> |          |
| Two      | <b>A</b> | arthritis           | <b>2</b> |          |
|          | <b>B</b> | diabetes            | <b>1</b> |          |
|          | <b>C</b> | heart disease       | <b>3</b> |          |
|          | <b>D</b> | high blood pressure | <b>4</b> |          |
| Three    | <b>A</b> | glands              | <b>4</b> |          |
|          | <b>B</b> | kidneys             | <b>3</b> |          |
|          | <b>C</b> | lungs               | <b>1</b> |          |
|          | <b>D</b> | skin                | <b>2</b> |          |
| Four     | <b>A</b> | doctors             | <b>1</b> |          |
|          | <b>B</b> | pregnant women      | <b>3</b> |          |
|          | <b>C</b> | politicians         | <b>4</b> |          |
|          | <b>D</b> | volunteers          | <b>2</b> |          |
| Five     | <b>A</b> | antibiotics         | <b>2</b> |          |
|          | <b>B</b> | antibodies          | <b>1</b> |          |
|          | <b>C</b> | painkillers         | <b>3</b> |          |
|          | <b>D</b> | toxins              | <b>4</b> |          |
|          | <b>A</b> | <b>B</b>            | <b>C</b> | <b>D</b> |
| Six      | <b>4</b> | <b>3</b>            | <b>4</b> | <b>1</b> |
| Seven    | <b>3</b> | <b>2</b>            | <b>4</b> | <b>2</b> |
| Eight    | <b>2</b> | <b>1</b>            | <b>2</b> | <b>2</b> |
| Nine     | <b>4</b> | <b>2</b>            | <b>4</b> | <b>3</b> |

**GCSE**

**SCIENCE A (4461)/BIOLOGY (4411)**

Objective Test Answer Key

**BLY1AP (Human Biology)**

Higher Tier

| Question | Key      |                      |          |          |
|----------|----------|----------------------|----------|----------|
| One      | <b>A</b> | antibiotics          | <b>2</b> |          |
|          | <b>B</b> | antibodies           | <b>1</b> |          |
|          | <b>C</b> | painkillers          | <b>3</b> |          |
|          | <b>D</b> | toxins               | <b>4</b> |          |
| Two      | <b>A</b> | carbon monoxide      | <b>1</b> |          |
|          | <b>B</b> | processed foods      | <b>2</b> |          |
|          | <b>C</b> | polyunsaturated fats | <b>3</b> |          |
|          | <b>D</b> | nicotine             | <b>4</b> |          |
|          | <b>A</b> | <b>B</b>             | <b>C</b> | <b>D</b> |
| Three    | <b>2</b> | <b>1</b>             | <b>2</b> | <b>2</b> |
| Four     | <b>4</b> | <b>2</b>             | <b>4</b> | <b>3</b> |
| Five     | <b>3</b> | <b>2</b>             | <b>3</b> | <b>3</b> |
| Six      | <b>3</b> | <b>4</b>             | <b>3</b> | <b>2</b> |
| Seven    | <b>4</b> | <b>3</b>             | <b>3</b> | <b>4</b> |
| Eight    | <b>3</b> | <b>4</b>             | <b>3</b> | <b>2</b> |
| Nine     | <b>1</b> | <b>3</b>             | <b>3</b> | <b>2</b> |

The AQA UMS Conversion Calculator can be found at the following web address:

<http://www.aqa.org.uk/umsconversion>

## Unit : BLY1AP BIOLOGY UNIT 1A

Centre :

Candidate Number :

UCI :

Series : BG12

Candidate Name :

06-NOV-12

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

**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 to NINE Choose one response 1 - 4 for each of the parts A - D

| QUESTION ONE |             | 1                     | 2                     | 3                     | 4                     |
|--------------|-------------|-----------------------|-----------------------|-----------------------|-----------------------|
| 1A           | antibiotics | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 1B           | antibodies  | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 1C           | painkillers | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 1D           | toxins      | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

| QUESTION TWO |                      | 1                     | 2                     | 3                     | 4                     |
|--------------|----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| 2A           | carbon monoxide      | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 2B           | processed foods      | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 2C           | polyunsaturated fats | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 2D           | nicotine             | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

| QUESTION THREE |  | 1                     | 2                     | 3                     | 4                     |
|----------------|--|-----------------------|-----------------------|-----------------------|-----------------------|
| 3A             |  | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 3B             |  | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 3C             |  | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 3D             |  | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

| QUESTION FOUR |  | 1                     | 2                     | 3                     | 4                     |
|---------------|--|-----------------------|-----------------------|-----------------------|-----------------------|
| 4A            |  | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 4B            |  | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 4C            |  | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 4D            |  | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

| QUESTION FIVE |  | 1                     | 2                     | 3                     | 4                     |
|---------------|--|-----------------------|-----------------------|-----------------------|-----------------------|
| 5A            |  | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 5B            |  | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 5C            |  | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 5D            |  | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

| QUESTION SIX |  | 1                     | 2                     | 3                     | 4                     |
|--------------|--|-----------------------|-----------------------|-----------------------|-----------------------|
| 6A           |  | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 6B           |  | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 6C           |  | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 6D           |  | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

| QUESTION SEVEN |  | 1                     | 2                     | 3                     | 4                     |
|----------------|--|-----------------------|-----------------------|-----------------------|-----------------------|
| 7A             |  | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 7B             |  | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 7C             |  | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 7D             |  | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

| QUESTION EIGHT |  | 1                     | 2                     | 3                     | 4                     |
|----------------|--|-----------------------|-----------------------|-----------------------|-----------------------|
| 8A             |  | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 8B             |  | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 8C             |  | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 8D             |  | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

| QUESTION NINE |  | 1                     | 2                     | 3                     | 4                     |
|---------------|--|-----------------------|-----------------------|-----------------------|-----------------------|
| 9A            |  | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 9B            |  | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 9C            |  | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 9D            |  | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

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# 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 NINE Choose one response 1 - 4 for each of the parts A - D

| QUESTION ONE |                | 1                     | 2                     | 3                     | 4                     |
|--------------|----------------|-----------------------|-----------------------|-----------------------|-----------------------|
| 1A           | egg            | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 1B           | embryo         | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 1C           | fertilised egg | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 1D           | sperm          | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

| QUESTION TWO |                     | 1                     | 2                     | 3                     | 4                     |
|--------------|---------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| 2A           | arthritis           | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 2B           | diabetes            | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 2C           | heart disease       | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 2D           | high blood pressure | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

| QUESTION THREE |         | 1                     | 2                     | 3                     | 4                     |
|----------------|---------|-----------------------|-----------------------|-----------------------|-----------------------|
| 3A             | glands  | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 3B             | kidneys | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 3C             | lungs   | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 3D             | skin    | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

| QUESTION FOUR |                | 1                     | 2                     | 3                     | 4                     |
|---------------|----------------|-----------------------|-----------------------|-----------------------|-----------------------|
| 4A            | doctors        | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 4B            | pregnant women | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 4C            | politicians    | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 4D            | volunteers     | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

| QUESTION FIVE |             | 1                     | 2                     | 3                     | 4                     |
|---------------|-------------|-----------------------|-----------------------|-----------------------|-----------------------|
| 5A            | antibiotics | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 5B            | antibodies  | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 5C            | painkillers | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 5D            | toxins      | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

| QUESTION SIX |  | 1                     | 2                     | 3                     | 4                     |
|--------------|--|-----------------------|-----------------------|-----------------------|-----------------------|
| 6A           |  | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 6B           |  | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 6C           |  | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 6D           |  | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

| QUESTION SEVEN |  | 1                     | 2                     | 3                     | 4                     |
|----------------|--|-----------------------|-----------------------|-----------------------|-----------------------|
| 7A             |  | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 7B             |  | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 7C             |  | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 7D             |  | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

| QUESTION EIGHT |  | 1                     | 2                     | 3                     | 4                     |
|----------------|--|-----------------------|-----------------------|-----------------------|-----------------------|
| 8A             |  | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 8B             |  | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 8C             |  | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 8D             |  | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

| QUESTION NINE |  | 1                     | 2                     | 3                     | 4                     |
|---------------|--|-----------------------|-----------------------|-----------------------|-----------------------|
| 9A            |  | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 9B            |  | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 9C            |  | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 9D            |  | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

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