

## **GENERAL EDUCATION AND TRAINING CERTIFICATE**

## **NQF LEVEL 1**

## **ABET LEVEL 4 SITE-BASED ASSESSMENT**

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| **LEARNING AREA** | **:** | **MATHEMATICS AND MATHEMATICAL SCIENCES** |
| **CODE** | **:** | **MMSC4** |
| **TOOL** | **:** | **TEST** |
| **DURATION** | **:** | **2 HOURS** |
| **MARKS** | **:** | **50** |

**This assessment tool consists of 4 pages.**

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| **INSTRUCTIONS AND INFORMATION FOR THE TEACHER** |  |  |

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| 1. | This test is set on Unit Standards   * US ID 7448 SO1, 2 ,3,4and 3 * US ID 7453 SO1,2and3 * US ID 7464 SO1, and 3 * US ID 7452 SO1,2 and 5 |  |  |

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| 2. | This task should be done individually and under controlled circumstances. |  |  |

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| 3. | Consolidation of the Unit Standards, by working through previous papers, should also be done in conjunction with this task to prepare learners for the examination. |  |  |

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| **QUESTION 1** |  |  |

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| 1.1 | Complete the following patterns. |  |  |

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|  | 1.1.1 | 11**✓A;**18**✓**A | Each correct pattern | (2) |

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|  | 1.1.2 | **✓A;** | Each correct pattern | (2) |

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|  | 1.2.1 | **✓A**  **✓A**  **✓A**  **✓A** | Correct substitution  Correct answer  Correct substitution  Correct answer | (4) |

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|  | 1.3.1 | **✓A** | Correct answer | (2) |

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|  | 1.3.2 | 27 sides A**✓** | Correct answer | (1) |

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|  | 1.3.3 | No**✓**A; there is no common difference in the pattern/the difference between any two consecutive terms is not the same**✓**A | Answer  Correct reason | (2)  **[13]** |

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| **QUESTION 2** |  |  |

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|  | 2.1.1 | John A**✓** | Correct answer | (1) |

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|  | 2.1.2 | Tala**✓A** 150 seconds**✓** A | Correct answer | (2) |

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|  | 2.1.3 | 5 seconds A**✓** | Correct answer | (1) |

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|  | 2.1.4 | Tala overtook him A**✓** | Correct answer | (1) |

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|  | 2.1.5 | John**✓A** was the first then comes Jack and then Tala**✓A** | Correct sequence  Correct names | (2) |

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|  | 2.1.6 | Jack**✓** A, and he was the  in the race**✓**A |  | (2) |

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|  | 2.1.7 | John (  Tala (8sec | Any correct name  Correct reason | (2)  **[11]** |

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| **QUESTION 3** |  |  |

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| 3.1 | Subtract:    **✓A ✓A✓A** | Each correct term | (3) |

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|  | 3.2.1 | **✓✓A** | Each correct term | (2) |

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|  | 3.2.2 | **✓ ✓✓** | Correct term in the answer | (3) |

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| 3.3 | Solve for *x*: |  |  |

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|  | 3.3.1 | **✓**  **✓** | Transposing of terms  Correct answer | (2) |

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|  | 3.3.2 | **✓**  **✓** | Transposing of terms  Simplification  Correct answer | (3) |

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|  | 3.3.3 | **✓**  **✓** | Transposing of terms  Correct sign()  Correct answer | (3) |

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| 3.4 | Factorize fully |  |  |

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|  | 3.4.1 | **A✓ A✓** | Correct common factor  Correct bracket | (2) |

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|  | 3.4.3 | **✓✓** | Correct brackets | (2)  **[20]** |

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| **QUESTION 4** |  |  |

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|  | 4.1.1 | A**✓**  **✓**  **✓** | Correct formula  Correct substitution  Correct answer and units | (3) |

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|  | 4.1.2 | **✓** | Correct substitution  Correct calculation  Correct answer and units | (3)  **[6]** |

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| **TOTAL :** |  | **50** |