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Mana Tohu Mātauranga o Aotearoa
New Zealand Qualifications Authority

Scholarship 2025 Digital Technologies

RESOURCE BOOKLET

Refer to this booklet to answer the questions for Scholarship Digital Technologies.

Check that this booklet has page 2 and that it is not blank.

YOU MAY KEEP THIS BOOKLET AT THE END OF THE EXAMINATION.

PSEUDOCODE REFERENCE SHEET

Key rules for writing pseudocode

1. Use clear, plain language:
 - Write steps that are easy to understand.
 - Avoid technical jargon or specific programming syntax.
2. Keep it structured:
 - Use indentation to show hierarchy (e.g. loops or conditions).
 - Follow logical, step-by-step sequences.
 - Explicitly show the end of code blocks (e.g. ENDFOR, ENDWHILE, ENDIF).
3. Be consistent:
 - Use standard terms in upper case (e.g. IF, ELSE, FOR, WHILE, RETURN).
 - Variables are in lower case, and type does not have to be defined.
4. Focus on logic, not syntax:
 - Avoid language-specific symbols, such as { }, ;, or #.
 - Describe what the code should do, not how it is implemented – i.e. use English rather than specific programming language constructs, such as SWAP, etc., if applicable.
5. Use comments for clarity:
 - Add brief comments to explain complex steps. Comments use //.

Basic structure

Code structures	Keywords
Input and output	INPUT, OUTPUT, PRINT
Conditionals	IF, THEN, ELSE, ENDIF
Loops	FOR, ENDFOR, FROM, TO, WHILE, ENDWHILE, IN, STEP
Functions	FUNCTION, ENDFUNCTION, RETURN
Comparisons	==, >, >=, <, <=, NOT EQUAL, EQUAL, GREATER THAN, LESS THAN
Logical operations	AND, OR, NOT
Arithmetic	+, -, *, /, %, MOD, PLUS, MINUS, TIMES, DIVIDED BY

You may use the blank pages opposite and overleaf for any rough working. This will not be assessed.

