

## COMPUTER SCIENCE UNIT 1

### CRITERIA FOR MARKING INTERNAL ASSESSMENT PROJECT

The project will be graded out of a total of 60 marks and marks will be allocated to each task as outlined below. *Candidates will be awarded marks for communicating information in a logical way using correct grammar. These marks are awarded under Task 5.0 below.*

1.	<b>Definition of Problem</b>	[4]
	• Complete and accurate description of the problem	3-4
	• Partial description of the problem	1-2
2.	<b>Narrative and Flow Charts or Pseudocode</b>	[15]
	• Algorithms expressed in narrative format	(4)
	- Narrative is an accurate description of a solution	3-4
	- Narrative is a partially correct description of a solution	1-2
	• Algorithms expressed as flow charts or pseudocode	(6)
	- Flow chart/Pseudocode is logical, easy to follow and is an accurate description of a solution using the appropriate symbols or algorithmic structures	5-6
	- Flow chart/Pseudocode is organised, easy to follow for the most part, and is a clear description of a solution using the appropriate symbols or algorithmic structures	3-4
	- Flow chart/Pseudocode is not well organised, and description of solution lacks clarity	1-2
	• Demonstration of structured programming concepts	(5)
	- Program displays excellent use of structured programming concepts	5
	- Program displays good use of structured programming concepts	3-4
	- Program displays limited use of structured programming concepts	1-2
3.	<b>Coding of Program</b>	[25]
	• Structured decomposition using functions	(6)
	- Overall, program comprises functions as independent units	5-6
	- Program comprises most functions as independent units	3-4
	- Program comprises some functions as independent units	1-2
	• Use of appropriate data structures	(6)
	- Data structure chosen were appropriate for the problem definition	5-6
	- Data structure chosen were reasonable but not appropriate	3-4
	- Data structure chosen were inappropriate	1-2
	• Demonstration of the concept of structured programming	(3)
	- Evidence of looping structures	3
	- Evidence of conditional statements	2
	- Evidence of other structures (for example assignment, input, output)	1
	• Appropriate programming style and documentation	(4)
	- Appropriate document in significant areas	3-4
	- Standard indentation of code	1-2
	• Evidence that code matches algorithm	(4)

	- Code matches sequencing of algorithm	4
	- Code matches MOST of the sequencing of algorithm	3
	- Code matches SOME of the sequencing of algorithm	2
	- Sequencing of code inconsistent with algorithm	1
	• Evidence of file manipulation	(2)
	- Correct file types used, for example, text, binary, sequential, random	2
	- File used appropriately	1
<b>4.</b>	<b>Testing and presentation</b>	<b>[11]</b>
	• Test Plan	(3)
	- Test Plan with exhaustive data set	3
	- Test Plan with acceptable data set	2
	- Test Plan with minimal data set	1
	• Test Results	(5)
	- Normal input giving correct results	5
	- Extreme input giving correct results or appropriate error message	3-4
	- Erroneous input (for example, text when number required) giving appropriate error message	2
	- Incomplete input giving appropriate message	1
	• Overall presentation	(3)
	- Appropriate cover page	1
	- Use of table of contents	1
	- Sequencing in document easy to follow	1
<b>5.</b>	<b>Communication of Information</b>	<b>[5]</b>
	• Communicates information in a logical way using correct grammar and appropriate jargon ALL of the time	4-5
	• Communicates information in a logical way using correct grammar and appropriate jargon MOST of the time	2-3
	• Communicates information in a logical way using correct grammar and appropriate jargon SOME of the time	1
	<b>TOTAL</b>	<b>60</b>