

## **Test**

Name:		

1. State what is meant by the term abstraction

[1]

2. State what is meant by problem decomposition

[1]

3. State two advantages of problem decomposition.

[2]

4. State the name of the algorithm shown.

[1]

**ENDWHILE** 

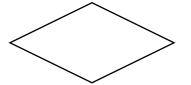


5. State a precondition for a binary search.

6. Label each of the flow diagram symbols below in the middle of the symbol.

[3]









7.	. Illustrate the first three steps of a bubble sort on the numbers: 5, 10, 7, 8	
8.	Illustrate the steps of a merge sort on the numbers: 8, 3, 9, 2	[4]
9.	The following algorithm should output the t times table in the format:	
٥.	1 x 8 = 8	
	2 x 8 = 16	
	3 x 8 = 24	
	(up to 12x)	
	Correct errors in the pseudocode and complete the output statement.	[4]
	<pre>t = INT(INPUT("Enter the times table you want to output:"))</pre>	
	FOR x = 1 TO 12 p = t * t	
	output statement using p needed here	
	NEXT x	
	PRINT(	)

End of test

**Total 20 marks** 

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