

5(a)	Activity	Name of life cycle stage
	a structure chart is produced	Design
	a program is modified to allow it to run on new hardware	Maintenance
	the programmer identifies the customer's requirements	Analysis
	an Integrated Development Environment (IDE) provides context-sensitive help such as 'auto-complete'	Coding
One mark per row		
5(b)	Acceptance testing	

5(a)	Activity		Name of life cycle stage
	The walkthrough method is used.		Testing
	An algorithm is implemented in a programming language.		Coding
	The client is interviewed about problems with the current system.		Analysis
	The program is modified to run on new hardware.		Maintenance
	Records and file structures are defined.		Design
	One mark per row		
5(b)(i)	One mark per row		
	Type of test data	Test data value	Expected result
	Abnormal	12 (< 23)	FALSE
	Abnormal / Boundary / Extreme	23	FALSE
	Boundary / Extreme	24	TRUE
	Boundary	25	TRUE
	Boundary	36	TRUE
	Boundary /Extreme	37	TRUE
	Abnormal / Boundary / Extreme	38	FALSE
	Abnormal	99 (> 38)	FALSE
Max 4 marks			
5(b)(ii)	Integration (testing)		

5(a)	Activity	Name of life cycle stage
	A compiler is be used.	Coding
	A program that has been released for general use is modified	Maintenance
	The dry run method is used.	Testing
	The program structure is specified.	Design
	One mark per row	
5(b)	One mark for method – two marks for the description MP1 Stub testing MP2 The modules <u>Test A()</u> and <u>Test B()</u> are replaced by dummy modules MP3 ... which return a known result // An output statement is displayed when called (to check it works) // gives expected output	