The questions on this worksheet have been taken from the OCR A-Level Computer Science Practice Paper 1.1

"3-a-day" A-Level Exam Practice Unit 1 (026)

Question 1			
A software development company is building an operating system for a mobile phone that is in the process of being designed.			
Explain how the developers could use virtual machines.			
[2]			
Question 2			
One of the developers is responsible for writing the code for what happens when the CPU receives an interrupt. Outline what the code must do.			
[6]			
Question3			
The developers follow the waterfall lifecycle.			
(i) List three stages of the waterfall lifecycle.			
1			
2			
3[3]			

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Answer 1	 Developers can run their operating system on a software implementation of the phone Until the physical machine is ready. (1 per -) 	AO1.2 2
Answer 2		
	 Complete the current FDE Cycle Check the priority of the incoming interrupt. If its of a higher priority than the current task. Contents of registers stored in memory in a stack. The relevant interrupt service routine is loaded by loading the relevant value into the progracounter. When the ISR is complete the previous state popped from the stack And are loaded back into the registers. (1 per -, max 6) 	am
Answer 3		
	 Feasibility Study Investigation/Requirements Elicitation Analysis Design Implementation/Coding Testing Installation Documentation Evaluation Maintenance (1 per -, max 3) 	AO1.1 3
Answer 3	 Investigation/Requirements Elicitation Analysis Design Implementation/Coding Testing Installation Documentation Evaluation Maintenance 	