The answers on this worksheet have been taken from the Additional OCR GCSE Computing Specimen Paper

6-A-Day – Computer Science GCSE (6)

Q1			
	The school decides to use the star topology to create the LAN. Describe what is meant by a star topology. You may use a diagram A hub / server at the centre of the network (1). All computers attached to the hub/server (1). Resources (e.g. printer) can also be attached to hub/server (1) An appropriate diagram to represent this information is also acceptable. Max 2.		2]
Q2	State the final values of the variables A and B if the values at the beginning of the code are A = 4 B = 9		
	Final value of A = 4 Final value of B = 9		
	A = 6 B = 2 Final value of A = 2		
	Final value of B = 2		[2]
Q3	Rewrite the code so that the contents of the variables are swapped correctly. Example: If A > B Then Temp = A A = B B = Temp End If		
	Award Marks for: Contents of one variable stored in a temp variable Second variable swapped into first Temp variable used to update second variable (accept solutions with 2 temp variables)		
	Max 3.	[3]	

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Q4	Possible test cases in	nclude:					
	Test data	Reason for test	Expected outcome				
	298	To see if numbers shorter than 4 digits are rejected	Error message: The number entered is too short.				
	Exactly 4 digits (and in the member file)	To confirm that it works	Success	•			
	More than 4 digits	To see if numbers longer than 4 digits are rejected	Error message: The number entered is too long.				
	Input missing	To see if input is required	Error message: No number has been entered				
	Non numeric characters	To see if non numeric characters are accepted	Error message: The data contains non numerical characters				
	A PIN which does not exist in the customer file (accept any test data with explanation)	To see if any 4 digit number can be entered	Error message: The number entered does not exist in the customer file.				
	Do not allow marks if numbers shorter thar [Award 1 mark per bo	n 4 digits).	is repeated (e.g. two	o tests for	[6]		
Q5	State the output(P) of the A = 1 B = 0 • P = 1	ne circuit if th	e inputs are:			[1]	
	A = 1 B = 1						
	• P = 0					[1]	
Q6	Example:						
	B C						
	A and B OR'ed in the circuit						
	The output is AND's	ea with C				[2]	