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

6-A-Day – Computer Science GCSE (7)

Q1

	Form	Query	Report
This can be used to print out all the appointments that the dentist has booked.			✓
This can be used to enter a patient's details when the patient registers with the dentist.	✓		
This can be used to find out all the appointments that a certain patient has made.		✓	

1 mark per row

[3]

Q2

When a patient makes an appointment, the start time of the appointment needs to be validated.
State <u>two</u> validation checks which can be carried out on the start time of the appointment.

Two from:
- The time is in the correct format / hh:mm
- The time is within the dentist's working day
- The hours are in the range 1 – 12 / 0 – 24
- The minutes are in the range 0 – 59

Accept other correct validation checks.

[2]

Q3

Justify the use of separate entities to store the patient and appointment data.
- The patient's data does not have to be repeated for each appointment…
- … as the patient ID can be stored with the appointment to link the two entities
- Allows the patient (and appointment data) to be manipulated independently e.g. if the name of the patient changes.
- Avoids the possibility of the patient data becoming inconsistent due to being stored multiple times

(1 mark for each bullet. Max 3 marks)

[3]

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Q4	A display board can show a flashing message of up to 20 characters. A program allows users to input the message to be displayed and the number of times it should flash. State the data type of each item of the input data. • Message: String • Number of flashes: Integer	[1] [1]

Q5	EXAMPLE
	  Begin
	    Input Message
	    Input NumberOfFlashes
	    If length(Message) > 20 Then
	      Output "This message is too long"
	    Else
	      For i = 1 to NumberOfFlashes
	        Display Message
	        Wait
	        Clear Message
	        Wait
	      Next
	    End If
	  End
	
	Award marks for an algorithm which:
	• Inputs message and number of flashes
	• If length of message > 20, output error message and stop
	• Otherwise run a loop which will
	• ... flash the message
	• ... for the correct number of times
	Max 5.
		[5]

Q6			

Expected Answer	Mark	Additional Guidance
• To carry out the processing on the computer/To (fetch and) execute instructions'	[1]	"control" the computer is too vague