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

6-A-Day – Computer Science GCSE (7)

Q1

11 A dentist uses a database to store the details of patients and their appointments.

(a) A database management system (DBMS) is used which includes forms, queries and reports.

Tick **one** box in each row to show whether each of the following statements best describes a form, a query or a report.

	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.			

[3]

Q2

(b) When a patient makes an appointment, the start time of the appointment needs to be validated.

State two validation checks which can be carried out on the start time of the appointment.

Check 1 ....

....

Check 2 ....

.... **[2]**

Q3

(c) Justify the use of separate entities to store the patient and appointment data.

....

....

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....

....

.... **[3]**

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Q4

12 A display board can show a flashing message of up to 20 characters.

(a) 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 ....[1]

Number of flashes .... [1]

Q5

(b) Write an algorithm for the program which:

- Allows the user to input the message and the number of flashes

- Rejects the message if it is longer than 20 characters and stops

- Otherwise it repeatedly displays the message and clears the display for the correct number of times.

....

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.... [5]

Q6

State the purpose of the CPU.

....

.... [1]