6-A-Day – Computer Science GCSE (19)

Q1

A mail-order company buys dresses from America and France to sell in the UK.

The company uses the following algorithm to convert sizes before printing them in its catalogue. Half sizes are not possible (e.g. size 12.5).

```
INPUT Size
INPUT Origin
IF Origin = "America" THEN
    Size = Size + 2
ELSE
    IF Origin = "France" THEN
        Size = Size – 26
    END IF
END IF
PRINT Size
```

The company sells the following dresses.

Dress A	**Dress B**	**Dress C**
Origin: France	Origin: America	Origin: UK
Size: 40	Size: 8	Size: 12

State the size which will be printed in the catalogue using the algorithm given.

Dress A ....

Dress B ....

Dress C .... **[3]**

Q2

How does the resolution affect the size of the bitmap file?

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.... **[2]**

Q3

Describe the purpose of RAM in the computer.

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.... **[2]**

| Q4 | A user types the address www.ocr.org.uk into a web browser.

Describe how a DNS server is used to access this website **and** explain the advantages of using DNS servers.

The quality of written communication will be assessed in your answer to this question.

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.... **[6]** |
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| Q5 | Explain what is meant by virtual memory.

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.... **[2]** |
| Q6 | State why virtual memory is needed.

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.... **[1]** |