5. A business is setting up a new communications network. Describe two implications of the Regulation of Investigatory Powers Act (2000) for this business.

2

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6. Innes regularly uses a shopping website called Better Shop.

Date: Wednesday 6th May 2015   *Time: 21:33*

Scripting is used to generate parts of the website.

(a) State **one** part of the website that is generated using client-side scripting.

1

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(b) State **one** part of the website that is generated using server-side scripting.

1

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7. Craig has been asked to write an algorithm that will search for a target ID from a list of fifty receipts. Each receipt has a unique receipt ID. Part of the algorithm is shown below.

```
Line 1      SET found TO false
Line 2      SET counter TO −1
Line 3      RECEIVE target_id FROM (INTEGER) BARCODEREADER
Line 4      REPEAT
Line 5      SET counter TO counter + 1
Line 6          IF receipt_id [counter] = target_id THEN
Line 7              SET found TO true
Line 8          END IF
Line 9      UNTIL _____
```

Using pseudocode, or a language with which you are familiar, complete line 9 of the algorithm shown above. **2**

8. Describe **two** benefits of prototyping when following a rapid application development methodology. **2**

9. Explain how cache memory can improve system performance. **2**

[Turn over

10. Describe how usability testing could be carried out on a website.

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11. A database table may have a compound key. State what is meant by the term compound key.

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