

6-A-Day – Computer Science GCSE (30)

Q1

Correct answer:

Input Data	Expected outcome	Reason for test
C	D E F	checks the output is the next three letters in the list
A	BCD	checks the output goes back to the beginning of the list
H	Error message	Not a valid/existing note

1 mark per box

6

Q2

- ASCII uses 8 bits...
- ... and so can only represent 255/256 distinct characters...
- ..many more characters are needed for coping with all languages (eg Unicode 16bits).
- ASCII does contain characters used in some languages

Accept answers referring to 7 bits are equally valid

2

Q3

- The source code is distributed with the software
- The customer can modify the source code
- The customer can redistribute the source code (with the same licence/restrictions)

2

Q4

Utility	Used for security	Used for disk organisation
Antivirus	✓	
Defragmenter		✓
File transfer		✓
Firewall	✓	

4

Q5

- A persistent...
- ... and structured/organised store of data
- Allows data to be queried/interrogated.

2

Candidates will typically describe the properties of persistence and organisation in their own words.

Q6

eg

Email address

- Must contain an @ sign
- Must contain a full stop (after the @ sign).

Gender

- Must be one of Male, Female, (Other).

Password

- Must have a given minimum length
- Must contain a non-letter.

3

Accept any suitable validation for the field given.

Do not accept checking that the email address is genuine/real, but accept checking that the email address does not belong to another registered member

Do not accept a length check for gender

Do not accept entering the password twice