Mark Scheme (Results)

Summer 2021

Pearson Edexcel International
Award In Lower Secondary Computing (LCP11)
Paper 01

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General Marking Guidance

- All candidates must receive the same treatment. Examiners must mark the first candidate in exactly the same way as they mark the last.
- Mark schemes should be applied positively. Candidates must be rewarded for what they have shown they can do rather than penalised for omissions.
- Examiners should mark according to the mark scheme not according to their perception of where the grade boundaries may lie.
- There is no ceiling on achievement. All marks on the mark scheme should be used appropriately.
- All the marks on the mark scheme are designed to be awarded. Examiners should always award full marks if deserved, i.e. if the answer matches the mark scheme. Examiners should also be prepared to award zero marks if the candidate's response is not worthy of credit according to the mark scheme.
- Where some judgement is required, mark schemes will provide the principles by which marks will be awarded and exemplification may be limited.
- When examiners are in doubt regarding the application of the mark scheme to a candidate's response, the team leader must be consulted.
- Crossed out work should be marked UNLESS the candidate has replaced it with an alternative response.

Section A

Question number	Answer	Mark
1a	**The only correct answer is A** *B is not correct because it is not an assignment operator* *C is not correct because it is not an assignment operator* *D is not correct because it is not an assignment operator*	**(1)**

Question number	Answer	Mark
1b	**The only correct answer is A** *B is not correct because the remainder is 1* *C is not correct because the remainder is 1* *D is not correct because the remainder is 1*	**(1)**

Question number	Answer	Mark
1c	**The only correct answer is B** *A is not correct because the result of the integer division is 2* *C is not correct because the result of the integer division is 2* *D is not correct because the result of the integer division is 2*	**(1)**

Question number	Answer	Mark
1d	False	**(1)**

Question number	Answer	Mark
1e	**The only correct answer is C** *A is not correct because 'and' is a logical operator* *C is not correct because 'and' is a logical operator* *D is not correct because 'and' is a logical operator*	**(1)**

Question number	Answer	Mark
2a	Private	**(1)**

Question number	Answer	Mark
2b	It is because the user can control who has access to their information/profile/posts	**(1)**

Question number	Answer	Mark
3a	CPU / Processor / Central Processing Unit Accept: ALU	(1)

Question number	Answer	Mark
3b	**The only correct answer is D** *A is not correct because an input device does not store data permanently* *B is not correct because main memory does not store data permanently* *C is not correct because output devices do not store data permanently*	(1)

Question number	Answer	Mark
3c	ROM / Non-volatile / Primary	(1)

Question number	Answer	Mark
4a	Isla	(1)

Question number	Answer	Mark
4b	20	(1)

Question number	Answer	Mark
4c	60	(1)

Question number	Answer	Mark
4d	Isla1080 Award **one** mark for Isla in correct position Award **one** mark for 10 in correct position Award **one** mark for 80 in correct position. Award 2 mark if all correct values but not in correct positions.	(3)

Question number	Answer	Mark
5	Anti-spyware Accept: Anti-keylogger	(1)

Question number	Answer	Mark
6	Award 1 mark for identification and 1 mark for a linked reason, up to a maximum of 2 marks. You can create more colourful images (1) because using more bits increases the number of values/representations (1)	(2)

Question number	Answer	Mark
7	(Hyper-)linked content / A collection of web pages (accessed via a browser) / A collection of documents formatted in HTML and accessed via HTTP	(1)

Question number	Answer	Mark
8	**The only correct answer is A** *B is not correct because number of packets stored would not have an additional unit* *C is not correct because search engine speeds are measured in time only* *D is not correct because web server storage is measured in bytes / mebibytes etc*	(1)

Question number	Answer	Mark
9	ASCII	(1)

Question number	Answer	Mark
10	Can encode more characters	(1)

Question number	Answer	Mark
11	**The only correct answer is C** *A is not correct because the result of the addition is 1010* *B is not correct because the result of the addition is 1010* *D is not correct because the result of the addition is 1010*	(1)

Question number	Answer	Mark
12a	**The only correct answer is A** *B is not correct because filtering does not intercept messages* *C is not correct because switching does not intercept messages* *D is not correct because transmitting does not intercept messages*	**(1)**
12b	**The only correct answer is A** *B is not correct because memory is not increased* *C is not correct because networks are not increased* *D is not correct because storage is not increased*	**(1)**
12c	Award **one** mark for identification and **one** mark for a linked reason, up to a maximum of **two** marks. More secure (1) because there is less chance of interception (1) because it has shorter range (1)	**(2)**

Question number	Answer	Mark
13	A description to include **three** linked points: To direct/send (1) packets/data (1) to connected devices (1)	**(3)**
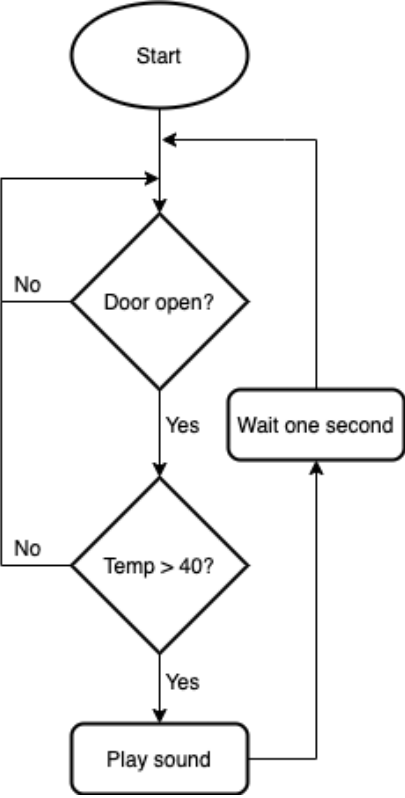
Question number	Answer	Mark
14	Any **one** from: To allow/block URLs/websites To protect a network To prevent/block malware	**(1)**

Question number	Answer	Mark
15a	16	**(1)**
15b	4 x 4 (1) 1 (bit) (1)	**(2)**

Question number	Answer	Mark
16	Any **one** from: Operating System/OS Systems software	**(1)**

Question number	Answer	Mark
17a	Any **two** from Magnetic Optical DNA	**(2)**
17b	Any **two** from: • They have no moving parts • They use less energy/power • They are not affected by movement • They are smaller (in size) • They are lighter	**(2)**

Question number	Answer	Mark
18	**The only correct answer is B** *A is not correct because 'ascend' is not a process used by a bubble sort algorithm* *C is not correct because 'decompose' is not a process used by a bubble sort algorithm* *D is not correct because 'delete' is not a process used by a bubble sort algorithm*	**(1)**

Question number	Answer	Mark
19	Any **three** from: • both decisions • the decisions looping back • sound looping back to start • one second delay Example answer: 	(3)

Question number	Answer	Mark
20	Any **two** from: • Removal of habitats/damage caused by mining for components (1) • Removal of water sources used to cool factories (1) • Pollution generated by factories (1) • Pollution from shipping of components (1) • Power usage in production using non-renewable energy (1) Accept responses that refer to use and disposal of digital technologies	(2)

Question number	Answer	Mark

21	Marks for:
	• > (1)
	• 1000 (1)
	• Both outputs ("Valid", "Fail") in the correct places. **and** Both as strings - surrounded by "" (1)
	• else (1)
	
	if a |>| 99 and a < |1000| :
	
	    print(|"VALID"|)
	
	|else| :
	
	    print(|"FAIL"|)
		(4)

Question number	Answer	Mark
22a	**The only correct answer is A** *B is not correct because page breaks do not repeat on all pages* *C is not correct because sub-headings do not repeat on all pages* *D is not correct because text boxes do not repeat on all pages*	**(1)**
22b	Justify/(Fully) justified	**(1)**
22c	Any **one** from: • To organise the content • To make content easier to find • To indicate what the document/section is about	**(1)**
22d	Word processing / Word Processor DTP / Desktop Publishing / Desktop Publisher Do not accept brand names	**(1)**

Question number	Answer	Mark
23a	**The only correct answer is A** *B is not correct because this is to be presented not used by the audience* *C is not correct because 50 bullet points will overload the page with tex* *D is not correct because 1000 words in a text box is too much reading for the audience*	**(1)**
23b	Animation/Transition	**(1)**

Question number	Answer	
24a	=C2-B2 • correct cells in correct order (1) • use of subtract operator (-) in the correct position (1)	**(2)**
24b	=D2*E2 for correct cells (1) use of multiply operator (* or x) in the correct position (1)	**(2)**
24c	Currency	**(1)**
24d	There are different data types / Addition cannot be carried out on text values / The value in cell E1 is text	**(1)**
24e	**The only correct answer is B** *A is not correct because it contains superfluous data and would give a different result.* *C is not correct because it is not a range* *D is not correct because it is not a range*	**(1)**
24f	It shows the proportions/percentage/relationships (of sales) It shows the popularity of the drinks	**(1)**
24g	The data may be different next week / can not expect identical sales every week / need to use more than one week's data.	**(1)**

Question number	Answer	Mark
25	Award **one** mark for each of the following: Each row in a database table is a record and each column is a field.	**(2)**

Question number	Answer	Mark
26	A description to include **two** linked points: Compares two operands/values/criteria (1) to see if both are true (1) Accept examples e.g. A user may want to search for Gender = 'Male' and Age = 12 (1) to find results that match both (criteria) (1)	**(2)**

Question number	Answer	Mark
27	A linked response to include **three** from: Using WYSIWIG takes less time (1) to create complex pages (1) because WYSIWIG does not need specialist knowledge to use (1) OR the reverse: Writing HTML takes more time (1) to create complex pages (1) because HTML needs specialist knowledge to use (1) Award **one** mark for a response that indicates that HTML requires translation before you see the results	**(3)**

Question number	Answer	Mark
28	Any **one** from: • location • resource • section • page • bookmark	**(1)**

Question number	Answer	Mark
29	Bitmap	**(1)**

Question number	Answer	Mark
30	Reduces the file size The quality/resolution of the image may be degraded Increases file transmission speed	**(1)**

Question number	Answer	Mark
31	**The only correct answer is B** *A is not correct because a quote from a celebrity is a secondary source* *C is not correct because audio from a television show is a secondary source* *D is not correct because video from the world wide web is a secondary source*	**(1)**

Question number	Answer	Mark
32	**The only correct answer is D** *A is not correct because it is not a clear, readable font* *B is not correct because it is not a clear, readable font* *C is not correct because it is not a clear, readable font*	**(1)**

Question number	Answer	Mark
33	Read only / View / Comment	**(1)**

Question number	Answer	Mark
34	Award 1 mark for identification and 1 mark for a linked reason, up to a maximum of 2 marks. (Resizing to 400 x 400) would maintain the proportions (1) so the image is not distorted / it looks more like the original (1) Accept answers that explain why 400 x 300 is not a good idea e.g. (Resizing to 400 x 300) would not maintain the proportions (1) so the image becomes distorted / does not look like the original (1)	**(2)**