Chhetri Academy

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GCSE COMPUTER SCIENCE

5.1

Edexcel 1CP2 | Specification point 5.1.1

Environmental issues associated with the use of digital devices (energy consumption, manufacture,...

Untiered

Answers and examiner comments

1	2018	Untiered
question groups	available papers	tier

Using this booklet

1. Answer numbers match the companion question booklet.
2. Follow the original question number on marking tables.
3. Examiner comments are included where available.

Name _____ **Date** _____

Some entries use full source marking material in an appendix. Any unavailable mark schemes are identified beside the relevant answer.

Question Number	Answer	Additional Guidance	Mark
5(a)	An explanation that makes reference to one of these types of access: • Read only • No access And includes a linked reason: • The student cannot see any **sensitive/irrelevant information** • The student does not accidently change/delete the data • The student cannot share the data (outside the organisation)		•

Question Number	Answer	Additional Guidance	Mark
5(b)	D – Unpatched (1)		**1**

Question Number	Answer	Additional Guidance	Mark
5(c)	• Disposal of digital devices in a landfill (1) could cause dangerous chemicals/toxins to leak (1) into drinking water (1). • Reclaiming precious metals (1) exposes workers to more dangerous chemicals/materials (1) by contact during handling (1). • Incineration of digital devices (1) causes chemicals/toxins to be released into the air (1), which could then be inhaled (1) • If batteries are not removed / thrown in bin (1) they can catch fire (1) creating a risk of burns (1)	• All points must be connected to human health, not just to environmental damage alone Max 2 marks per bullet point.	**4**

Question Number	Answer	Additional Guidance	Mark
5(d)(i)	Any two from: • Networks are put under deliberate attack (1) in order to identify any weaknesses/vulnerabilities (1) so that they can be fixed (1)		**2**

Question Number	Answer	Additional Guidance	Mark
5(d)(ii)	Any two from: Identify: 1. bad programming practices (1) 2. inefficient code (1) 3. logic errors (1) 4. programming language-specific vulnerabilities (1) 5. security vulnerabilities		**2**