Chhetri Academy

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GCSE COMPUTER SCIENCE

5.3

Edexcel 1CP2 | Specification point 5.3.2

Methods of protecting digital systems and data (anti-malware, encryption, acceptable use policies,...

Untiered

Past paper question booklet

2	2021-2025	Untiered
question groups	available papers	tier

Before you begin

1. Show working and use units where appropriate.
2. Use extra paper if you need more space.
3. Print at actual size (100%) for measurement questions.

Name _____ **Date** _____

Whole questions are retained for context; some parts cover other points. Legacy sources are labelled.

8 A company stores data about employees on networked computers.

Discuss the methods available to maintain network security and protect the data from cyberattacks.

(6)

(Total for Question 8 = 6 marks)

3 Issues and impact

(a) Information is protected legally in several ways.

(i) Identify the law that is broken when a person gains unauthorised access to a computer system.

(1)

- ☒ **A** Computer misuse
- ☒ **B** Consent
- ☒ **C** Copyright
- ☒ **D** Intellectual property

(ii) One principle of data protection legislation is that data must be processed lawfully, fairly and in a transparent manner.

Give **three other** principles of data protection legislation.

(3)

1 .....

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2 .....

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3 .....

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(b) Software licensed as open-source can be used free of charge.

Give **one other** characteristic of open-source software licensing.

(1)

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(c) Cyber security protects computer systems from harm.

(i) Explain **one** reason why an acceptable use policy keeps computer systems secure.

(2)

(ii) Identify the type of malware that attaches itself to other files.

(1)

- ☒ **A** Keylogger
- ☒ **B** Trojan
- ☒ **C** Virus
- ☒ **D** Worm

(Total for Question 3 = 8 marks)