Chhetri Academy

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GCSE COMPUTER SCIENCE

1.5

OCR J277 | Specification point 1.5.2

Utility software

Untiered

Past paper question booklet

6	2014-2025	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 Julian buys a new laptop with a system information utility and a diagnosis utility.

Describe, using examples, the purpose of the system information and diagnosis utilities.

System information utility

.....

.....

Example

.....

.....

Diagnosis utility

.....

.....

Example

.....

.....

[4]

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4 Security on a computer can be provided directly by the operating system or by using utility programs.

(a) Utility programs include antivirus, file transfer, firewall and system cleanup.

State which **two** of these utilities can be used for security.

1 .....

2 .....

[2]

(b) Identify and describe **two** methods by which the operating system can provide additional security directly.

1 .....

.....

.....

.....

2 .....

.....

.....

.....

[4]

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2 Xander's tablet computer comes with system software, including an operating system and utility system software.

(a) The operating system provides file management.

Identify **three** ways that Xander can make use of the file management facility.

1 .....

.....

2 .....

.....

3 .....

.....

[3]

(b) The utility system software provides compression software. Xander uses this to compress an image.

(i) Explain how the compression software will compress the image file.

.....

.....

.....

.....

.....

.....

.....

.....

.....

..... **[4]**

(ii) Give the name of **two** other types of utility system software.

1 .....

2 .....

[2]

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Turn over

(c) Xander also has a smart watch.

(i) Tick (✓) **one** box to show whether the smart watch or the laptop is an example of an embedded system.

	Is an example of an embedded system
Smart watch	
Laptop	

[1]

(ii) Justify your choice to **part (i)**.

.....

.....

.....

.....

.....

.....

..... **[2]**

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2 Layla uses her computer to create educational games.

Layla makes use of system software.

(a) One type of system software is the operating system.

Identify and describe **two** functions of an operating system.

Function 1 .....

Description .....

.....

.....

.....

Function 2 .....

Description .....

.....

.....

.....

[6]

(b) Layla also uses utility system software.

(i) State the purpose of utility system software.

.....

..... **[1]**

(ii) Layla uses a backup utility. She performs both full and incremental backups.

Explain the reasons why Layla performs both full and incremental backups.

.....

.....

.....

.....

.....

..... **[3]**

(c) When Layla has finished her educational game, she is going to release it as open source.

Give **one** benefit and **one** drawback of Layla releasing her game as open source.

Benefit .....

.....

Drawback .....

.....

[2]

3 A computer has an operating system and utility software.

(a) The table contains operating system functions and a task that each function performs.

Complete the table by writing the two missing function names and a task performed by the two given functions.

Function	Task
	Moves data from secondary storage to RAM
Peripheral management	
	Allows the user to create, name and delete folders
User interface	

[4]

(b) Complete the description of utility system software using the words provided in the box. Not all words are used.

access	amount	apart	compression	consecutive
defragmentation	deleted	encryption	key	lock
quantity	separate	speed	understood	

..... software changes data using a ..... . If the changed data is intercepted, it cannot be ..... . This software does not stop the data from being intercepted.

..... software analyses the data on a disk to find files that have been split and stored in separate locations. The split files are moved to be ..... in storage and the free space is moved together. This does not provide more storage space on the disk, instead it makes the ..... of the data faster because the read head does not have to move as far to access the next part of the file.

[6]

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2 A computer has an operating system.

(a) Tick (✓) **one** box on each row to identify the operating system function that will manage each task.

Operating system function	Memory management	Peripheral management	User management	File management
Multitasking				
Renaming a folder				
Creation of user accounts				
Installation of a printer driver				
Transfer of data to and from RAM				

[5]

(b) A computer also has utility software.

(i) State the purpose of utility software in a computer.

.....

..... **[1]**

(ii) Explain the purpose **and** function of encryption software.

.....

.....

.....

.....

.....

..... **[3]**

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