Chhetri Academy

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GCSE COMPUTER SCIENCE

3.2

Edexcel 1CP2 | Specification point 3.2.1

The purpose and functionality of an operating system (file management, process management, peripheral...

Untiered

Past paper question booklet

1	2018	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.

4 A company is developing a computer for use in schools.

(a) All computers have a CPU, memory and storage.

(i) Identify the type of physical storage that uses electronic circuits.

(1)

- ☒ **A** Solid state
- ☒ **B** The cloud
- ☒ **C** Magnetic
- ☒ **D** Optical

(ii) State what ROM and RAM store.

(2)

ROM

.....

.....

RAM

.....

.....

(iii) John von Neumann proposed the concept of a stored program.

State the **two** items he proposed to store in main memory.

(2)

1 .....

2 .....

(iv) Identify the part of the CPU that sends signals to the other components.

(1)

- ☒ **A** Arithmetic logic unit
- ☒ **B** Control unit
- ☒ **C** Register
- ☒ **D** Bus

(b) The computer needs an operating system and utility software.

(i) The operating system controls the scheduling of processes.

Describe how the operating system uses scheduling to allocate processor time.

(2)

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(ii) Identify the function of utility software.

(1)

☒ **A** Repairing secondary storage

☒ **B** Formatting cache memory

☒ **C** Converting files

☒ **D** Translating programs

(Total for Question 4 = 9 marks)