

Unit 4: Computer systems – syllabus lists

These are the "lists" from the syllabus. When a question asks "name three functions of an operating system", the marker will expect the ones here to be the ones you write about. Other answers will be credited when they are correct, but these are the safest ones to write about.

You need to do more than just learn these lists – you need to be able to write about each point and there is other content that you need to learn as well.

2 types of software:

- Application
- System

5 components of the CPU:

- Control unit
- Arithmetic logic unit (ALU)
- Clock
- Registers
- Bus

2 types of memory:

- Main memory
- Secondary storage

4 types of secondary storage:

- Solid state
- Optical
- Magnetic
- Cloud

2 types of programming language:

- High level
- Low level
and
- Machine code
- Assembly language

5 jobs for the operating system:

- **A**pplications
- **M**emory access
- **P**rocessor access
- **I**nput/output devices
- **S**ecurity

3 ways to effect CPU performance:

- Clock speed
- Processor cores
- Cache size

4 types of main memory:

- RAM
- ROM
- Registers
- Cache

4 different logic gates:

- AND
- OR
- XOR
- NOT

3 types of translator:

- interpreter
- compiler
- assembler

Embedded systems