

## $SS201\mu$ Introduction to the Internal Design of Operating Systems

Quizz 1: Operating system services

This	assessment	evaluates	the	following	compete	encies:
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A system program is completely executed in kernel mode.

transition between the user and the kernel mode.

• OS101 – Understand and define what is an operating system		(+1)
• OS102 – Explain mechanisms used by the operating system to abstract the CPU, t the input/output	he mem	ory and (+1)
• OS121 – Understand how the user mode interacts with the kernel mode and exp call mechanism	lain the	system $(+1)$
Three affirmations are given for each assessed competency. For each of them, you whether it is true or false. To get a star for the competency, you must have the correct three affirmations.		
OS101	True	False
An operating system directly provides an abstraction of the hardware of a computing system to its users.		
It is impossible to have a computing system without any operating systems on which applications can be run.		
An operating system provides services to the applications to allow them to access the hardware.		
OS102	True	False
The main memory of a computing system is abstracted with processes by the operating system.		
The physical memory of a computing system can be divided into pages.		
A process may be on disk.		
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OS121	True	False
A system call is used to execute any user code in kernel mode.		

A user application can execute a system call through the system call interface that makes the