

Sec - 4

Q ① Write about monolithic, layered, & micro kernel structures of operating systems.

Soln

Monolithic kernel :- A monolithic kernel is an operating system architecture where the entire operating system is working in kernel space. The monolithic model differs from the other operating system architectures in that it alone defines a high level virtual interface over computer hardware.

Layered operating system :-

The operating system is split into various layers in the layered operating system & each of the layers have different

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functionalities. The type of operating system was created as an improvement over the early monolithic system.

→ There are six layers in the layered operating system.

→ Hardware → This layer interacts with the system hardware with all the peripheral devices used such as printer, mouse, keyboard, scanner etc.

CPU scheduling

This layer deals with scheduling the process of C.P.U. There are many scheduling queues that are used to handle process.

When the process enters the system, they are put into Job queues.