Name - Shadman Ahmed. Course - BCA. Semesters BCA 4th semester Paper Code - BCA 119 Pouno > 74

Taper Name > Operating system

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The proposition of the proposition

Q1) Define an os? Explain its yole in the

Answer > Operating system is an user interface between the user and the hardware and enables the interaction of computer's hardware and software. An operating system is a software which perform tasks like, file magament, storage process, handling input and output. An De acts the an mastermind performing multitude of operation.

Roles of os of subspace of Attun

- do the supplier voit grown define do 1 Device management: It keeps track of all devices Decides which process gets the device when and for how much time. De allocates deurces.
- D file management: os allocates and deallocates opsources. It regulates which process get the file and for achat distriction.

Page No. | (2) What are interrupts? Explain the mesupt vector! Answer > The Poteroupt is a signal emmited by hardware on sytuare when process ar an event needs immediate attention. It alerts the processar to a high priority process requising interuption of the avoient worthing progress

In I/O devices one of the control lines is dedicated for the purpose. Interrupt vector: An interrupt vector is an memory location of an interrupt handler or from a program with the computer, that tells the as to stop and decides what to do next when an Interrupt is generated, OS saves its execution state by means of a context suitch, a procedure that a computer processor follows to change from one task to another

computer system in details.

Answer: Thore are 2 types of storage devices, volatile storage devices and non voltile storage devices.

Storage devices consist of registers, cache, main memory electronic - Disk, magnetic disk, optical - Disk, magnetic - Tapes. Fach storage system of storing a datum and of holding the datum until he is retrieved at a later time.

All the storage device differ in speed, cost, size, volatility. The most common secondary - storage device is a magnetic Disk which provides storage for both programs and data.

The storage systems above the electronic disk are volatile whose those are below are non-volatile.

operating systems provides.

Answer Priogram execution: To execute a purogram, several task's need to be performed. Both instruction and data must be loaded into main memory.

- Priogram Creation: The os offers that structure and tools, including editors and debuggers, to help the program create.
  - Accounting: An os collects utilization of data records for numerous assets and tracks the overall performance parametre and responsive time to enhance overall performance
  - · Security and Protection: Operating devices affords safety to the statistics and pakages of a person and protects interference from unauthorized users