**DCA1201 – OPERATING SYSTEM**

**Assignment Set – 1**

**1. a. Discuss the types of Operating System.**

**Ans: Types of Operating System:-**

**Personal Computer Operating Systems**

The main mode of use of a PC (as its name implies) is by a single user. Thus Os for PCs were designed as a single user single task operating system, that is, it is assumed that only one user uses the machine and runs only one program at a time. The operating system of PCs consists of two parts. One part is called the BIOS (

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**b. What is VMware? Write a short note on it.**

**Ans:** VMware is a virtualization and cloud computing software provider based in Palo Alto, Calif. Founded in 1998, VMware is a subsidiary of Dell Technologies. EMC Corporation originally

**2. What is Preemptive and Non-preemptive Scheduling? Discuss the CPU scheduling algorithms.**

**Ans:** Scheduling can either be preemptive or non-preemptive. If preemptive, then an executing process can be stopped and returned to ready state to make the CPU available for another ready process.

**3. Discuss Inter Process Communication and critical-section problem along with the use of semaphores.**

**Ans:** Communication of co-operating processes’ shared-memory environment requires that these processes share a common buffer pool, and that the code for implementing the buffer be explicitly written by the application

**Assignment Set – 2**

**Questions**

**4. a. What is a Process Control Block? What information is stored in it?**

**Ans:** Every process has a number and a process control block (PCB) represents a process in an operating system. The PCB serves as a repository of information about a process and varies from process to process. The PCB contains information that makes the process an active entity. A PCB is shown in Figure. It contains

**b. What is thrashing? What are its causes?**

**Ans:** When a process does not have enough frames or when a process is executing with a minimum set of

**5. a. Discuss the different File Access Methods.**

**Ans:** Information is stored in files. Files reside on secondary storage. When this information is to be used, it has to be accessed and brought into primary main memory. Information in files could be accessed in

**b. What are I/O Control Strategies?**

**Ans:-** Several I/O strategies are used between the computer system and I/O devices, depending on the

**6. Explain the different Multiprocessor Interconnections and types of Multiprocessor** **Operating Systems.**

**Ans:** The nature of multiprocessor interconnections has an effect on the bandwidth for communication. Complexity, cost, IPC and scalability are some features considered in interconnections. Basic architectures