**SESSION**

**FEB/MAR 2021**

**PROGRAMME**

**MASTER OF COMPUTER APPLICATION (MCA)**

**SEMESTER**

**I**

**COURSE CODE & NAME**

**DCA6105 - COMPUTER ARCHITECTURE**

1. **What do you understand by parallelism in computer architecture? Discuss the different classes of parallelism and parallel architectures?**

**Ans 1.**

**Parallel Computing:**

It is the use of multiple processing elements simultaneously for solving any problem. Problems are broken down into instructions and are solved concurrently as each resource that has been applied to work is working at the same time.

1. It can be impractical to solve larger problems on Serial Computing.

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1. **What do you understand by process and threads? Differentiate between them?**

**Answer:**

[**Process**](https://www.geeksforgeeks.org/gate-notes-operating-system-process-management-introduction/)**:**
Process means any program is in execution. Process control block controls the operation of any process. Process control block contains information about processes for example Process priority, process id, process state, CPU, register, etc. A process can create other processes which are known as Child Processes. Process takes more time to terminate and it

1. **Explain Amdahl’s Law of computer design.**

**Answer:**

**Amdahl’s Law:**

In [computer architecture](https://en.wikipedia.org/wiki/Computer_architecture), Amdahl's law (or Amdahl's argument) is a formula which gives the theoretical [speedup](https://en.wikipedia.org/wiki/Speedup) in [latency](https://en.wikipedia.org/wiki/Latency_%28engineering%29) of the execution of a task at fixed [workload](https://en.wikipedia.org/wiki/Workload) that can be expected of a system whose resources are improved.

In [computer architecture](https://en.wikipedia.org/wiki/Computer_architecture), Amdahl's law is a formula which It is named after computer