Distributed and Real time Spenating

System.

Aus.) Payallel O.S. Distributed O.S and Real Time O.S have their own ways of functioning and execution. We will be comparing them on their applications, way of running and their key features.

1) Parallel Spenating System

A. Applications: Scientific Simulations
Image and video processing.

* An task that is resource hungery and requires multiple processes to sun at a single time is done on a Parallel O.S.

B. Way of Running:

- · Tasks we divided into subtasks and executed simultaneously.
 · Requires syncionisation to combine results.

C. Key features:

· Shaved memory across many processes · Load Lalancing to make it more efficient.

- 11) Distributed Operating System:
 - A. Applications: Cloud Computing platforms

 Online Eauking Systems
 - * For tasks that require being synched on meltiple locations/devices.

B. Way of Kunning:

- · Tasks are dévided into independent processes and are distributed across différent computers.

 · Earch machine executes its assigned processes independently and results are then coordinated.

C. Key features:

- · Resource showing across systems.
 · Scalability and Reliability.

(III) Real Time Sperating System:

B. Way of Kunning:

- · Tasks are scheduled based on priority and deadlines. · Ersures time-bound execution.

C. Key Features:

- · Deterministic and pledictable response time. · Supports multitasking with strict time no constraints.