L:-9

Introduction to Process

- Steps
  - (a) Load the program & static data into memory.
  - (b) Allocate runtime stack.
  - (c) Heap memory allocation.
  - (d) I/O tasks.
  - (e) OS handoffs control to main ().

Page No.:
Date:

- **Architecture of process**

Stack	Local variables, function args & return values
Heap	Dynamically allocated variables
Data	Global & static data.
Text	Compiled code (loaded from disk).

- **Attributes of process:**

(a) Feature that allows identifying a process uniquely.

(b) Process table:-
① All processes are being tracked by OS using a table like data structure.
② Each entry in that table is process control block (PCB).

(c) PCB: Stores info/attributes of a process.
① Data structure used for each process, that stores info. of a process such as process id, program counter, process state, priority etc.

- **PCB structure:-**

Process ID
Program Counter (PC)
Process State
Priority
Registers
List of open files