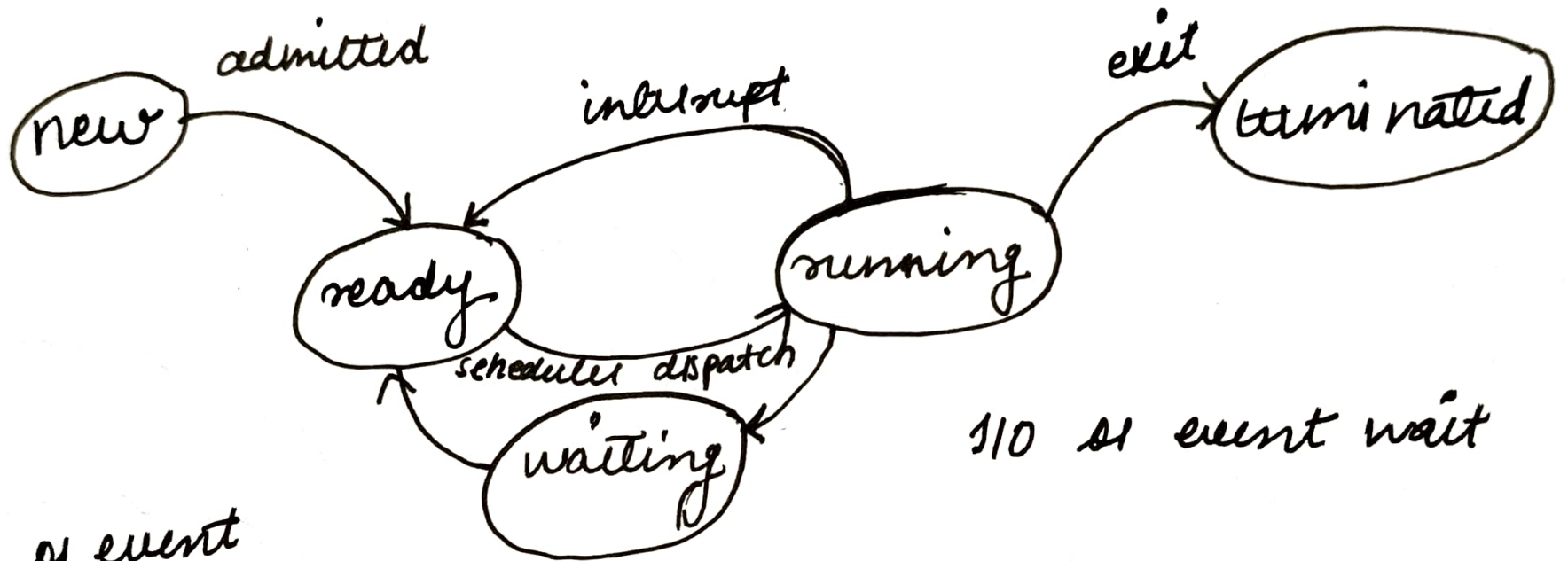


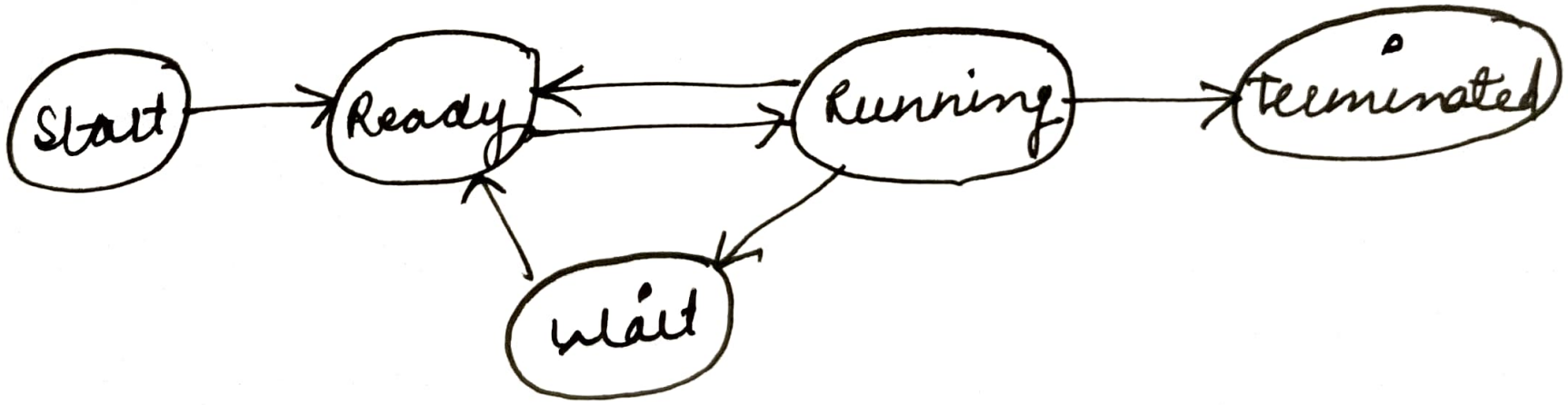
Sec-3 Process concept with diagram:-

Ans-1



IO si event wait

IO si event completion



A process is basically 'a program in execution' when a process executes, it passes through five 'process states'

- i) Start
- ii) Ready
- iii) Running
- iv) Waiting
- v) Terminated / Exit

A program is only a part of a process; the process also contains the execution state of a program.

To put in simple terms, we write our computer programs in a text file and when we execute this program, it becomes a process which performs all the tasks mentioned in the program.

When a program is loaded into the memory and it becomes a process it can be divided into four sections:-

Stack, heap, text, data.

Each process has a segment of code, called CRITICAL section in which process may be changing common variables, updating a table, writing a file and so on.

do {

    entry section

        CRITICAL SECTION

    Exit Section

        Remainder section

} while (true).