Q1. Which signals are triggered, when the following actions are

performed?

1. **User presses ctrl+C**

When the user presses ctrl + C, an interrupt signal is sent which interrupts the ongoing process and terminates it if there’s no handler function for it. The signal is denoted as “SIGINT”

1. **kill() system call is invoked**

When kill() system call is invoked, it sends a signal to a process or a group of processes which terminates them immediately without letting the process clean up. This signal is denoted by “SIGKILL”

1. **CPU tried to execute an illegal instruction**

When CPU tries to execute an illegal instruction, an error signal is generated which generated a trap or an exception. This results in the OS kernel taking control and handling the exception. This signal is denoted by “SIGILL”

1. **When the program accesses the unassigned memory**

When a program accesses unassigned memory, it encounters a segmentation fault. Then, the OS may terminate the offending process, log an error or take other appropriate action. The signal is denoted as “SIGSEGV”