1994 Paper 4 Question 5

UNIX Case Study

For the UNIX operating system, define

(*a*) process   [2 marks]

(*b*) the execution environment of a process   [3 marks]

(*c*) the `fork` system call   [3 marks]

Explain how a command line of the form given below is implemented:

```
command <argument-list> &
```
                                                                                                      [9 marks]

Outline the essential difference in the implementation of command lines of the form given below:

```
command1 <arg1-list> & command2 <arg2-list>
command1 <arg1-list> | command2 <arg2-list>
```
                                                                                                      [3 marks]