a) The output will be "Sum=20" printed infinitely. Return 10 would never be executed since it is after execution of exec1. Parent will return 20 and child will execute the mexec. In each process the child copies the parent and the process starts again.

b) Minimum process is one when the executable starts and maximum is 2. At one time only one parent and child will be there.

c) Each fork call created a new PCB, and when the main function terminates, PCB is destroyed. Due to the behaviour of exec1, infinite PCBs are created and destroyed.

d) If exec1 is commented then the output depends on whether parent or child starts execution first after forking. If parent executes first then it will print 20 and if child executes first then 10 will be printed.(We can go on about child as a new parent too).

Group - 17 190353 HARDIK SHARMA ,180156 ASHWIN SHENAI, 190017 ABHAY MISHRA, 190128 ANANYA GUPTA ,191178 YATHARTH GOSWAMI