Quiz - 1: Operating Systems with Linux (MCA-105)

MCA – 1st Semester (Batch: 2023-25)

system to maintain control over the CPU?

b) Swapping c) Scheduling d) Switching

a) Timer

Max. Marks: 20

Roll Number			
 Embedded computers typically run on a operating system. a) real-time b) network c) clustered d) distributed 	(1)	 11. In a time-shared operating system, when the time slot assigned to a process is completed, the process switches from the current state to	(1)
 2. The two separate modes of operating in a system are a) supervisor mode and system mode b) user mode and kernel mode c) kernel mode and privileged mode d) physical mode and logical mode 	(1)	 12. In context to communication between processes, is also known as no-buffering. a) zero capacity b) bounded capacity c) unbounded capacity 	(1)
 3. A message-passing model is	(1)	 d) automatic buffering 13. Which of the following would lead you to believe that a given system is a symmetric multiprocessing (SMP)-type system? a) Each processor is assigned a specific task. b) There is a boss-worker relationship between the processors. c) Each processor performs all tasks within the operating system. d) None of these 	(1)
operating system. a) Communication b) Simulators c) System calls d) Shared memory		 14 operating systems are designed primarily to maximize resource utilization. a) Network b) Mainframe c) Handheld computer d) None of these 	(1)
 5. A process control block	(1)	15. When a child process is created, which of the following is a possibility in terms of the execution or address space of the child process?a) The child process runs concurrently with the parent.b) The child process has a new program loaded into it.c) The child is a duplicate of the parent.d) All of these	(1)
 6. The of a process contains temporary data such as function parameters, return addresses, and local variables. a) stack b) text section c) data section d) program counter 7. The list of processes waiting for a particular I/O device is called a(n)	(1)	16. Which of the following statements is wrong in context to monolithic kernel?a) User services and kernel services are kept in the same address space.b) Monolithic kernel is smaller than microkernel.c) If a service crashes, the whole system crashes in monolithic kernel.d) The monolithic kernel is hard to extend	(1)
a) interrupt queue b) ready queue c) device queue d) standby queue		 17. Which of the following operating systems is not based on monolithic kernel? a) Linux b) Unix c) Windows 95 d) Windows 7 	(1)
 8. The refers to the number of processes in memory. a) dispatcher b) long-term scheduler 	(1)	 18. An interrupt caused by division by zero is called	(1)
c) short-term schedulerd) degree of multiprogramming		19. Which of the following are the benefits of multi-threading?a) Responsiveness b) Economy c) Scalability d) All of these	(1)
 9. Which of the following items are shared across multiple threads belonging to the same process? a) Code, Data, Files b) Registers c) Stack d) All of these 	(1)	20. In operating system, each process is represented by aa) PCB b) SMP c) CPU d) Message	(1)
10. Which of the following approaches is used by the operating	(1)		