

Q27. In a multiprogramming environment, there is a need to limit access to shared resources; that is, the current process has exclusive use of the assigned resources for some period of time. Which of the following appropriately describes the function to successfully implement this type of exclusive control?

- a) A dispatcher is used to determine which resource should be allocated to which process and to restrict access to a specific resource.
- b) A semaphore variable is used to indicate the status of common resource.
- c) An interrupt is generated to signal to all processes that the use of a specific resource is restricted for some period of time.
- d) Spooling is used to enable exclusive control of a process by means of a queue.