Program: BE **Information Technology** Engineering

Curriculum Scheme: Revised **2012**

Examination: Third Year Semester **V**

Course Code: **TEITC502** and Course Name: **Operating System**

Time: 1 hour Max. Marks: 50

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Note to the students:- All the Questions are compulsory and carry equal marks .

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| Q1. | Memory management refers to management of Primary Memory or Main Memory |
| Option A: | Volatile Memory |
| Option B: | Secondary Memory |
| Option C: | Virtual memory |
| Option D: | Primary & main memory |
|  |  |
| Q2. | In multi-programming environment, the OS decides which process gets the processor when and for how much time. This function is called process scheduling |
| Option A: | Multi-programming |
| Option B: | Process Management |
| Option C: | process scheduling |
| Option D: | Device Management |
|  |  |
| Q3. | Select the Disadvantage of the User level threads . |
| Option A: | Thread switching does not require Kernel mode privileges |
| Option B: | User level threads are fast to create and manage |
| Option C: | Multithreaded application cannot take advantage of multiprocessing. |
| Option D: | User level threads are fast to create and manage |
|  |  |
| Q4. | Select the correct statement |
| Option A: | Resource consumption is more in threads |
| Option B: | Resource consumption is more in threads and process |
| Option C: | Resource consumption is more in process |
| Option D: | Resource consumption is less in process |
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| Q5. | \_\_\_\_\_\_\_\_\_\_\_\_policy, a low priority process has to be suspend its execution if high priority process is waiting in the same queue for its execution |
| Option A: | Preemptive schedular |
| Option B: | Non-Preemptive schedular |
| Option C: | Long term schedular |
| Option D: | Interactive and batch process |
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| Q6. | \_\_\_\_\_\_operating system supports for many number of users to work on same computer at the same time |
| Option A: | Multiprocessing |
| Option B: | Multithreading |
| Option C: | Multiuser |
| Option D: | Multitasking |
|  |  |
| Q7. | Which of the following is not the type of the system call. |
| Option A: | File manipulation |
| Option B: | Communication |
| Option C: | Protection and security |
| Option D: | Process manipulation |
|  |  |
| Q8. | A race condition is triggered when multiple processes or threads write and read |
| Option A: | Input |
| Option B: | Information |
| Option C: | Programs |
| Option D: | Data items |
|  |  |
| Q9. | What can prevent the circular wait condition? |
| Option A: | defining a linear ordering of resource types |
| Option B: | using thread |
| Option C: | using pipes |
| Option D: | removing resources |
|  |  |
| Q10. | Name the deadlock avoidance algorithm? |
| Option A: | banker’s algorithm |
| Option B: | round-robin algorithm |
| Option C: | elevator algorithm |
| Option D: | karn’s algorithm |
|  |  |
| Q11. | In multitasking when a process is perpetually denied necessary resources then a problem arises, what is it called \_\_\_\_\_\_\_\_\_\_\_\_ |
| Option A: | Deadlock |
| Option B: | Starvation |
| Option C: | Inversion |
| Option D: | Aging |
|  |  |
| Q12. | The way of aborting processes and eliminating deadlocks are \_\_\_\_\_\_\_\_\_\_\_\_ |
| Option A: | Abort all deadlocked processes |
| Option B: | Abort all processes |
| Option C: | Abort one process at a time until the deadlock cycle is eliminated |
| Option D: | wait till deadlock ends itself |
|  |  |
| Q13. | The size of a page is typically \_\_\_\_\_\_\_\_\_\_\_\_ |
| Option A: | Varied |
| Option B: | power of 2 |
| Option C: | power of 4 |
| Option D: | power of 10 |
|  |  |
| Q14. | With paging there is no \_\_\_\_\_\_\_\_ fragmentation. |
| Option A: | Internal |
| Option B: | External |
| Option C: | either type of |
| Option D: | Mixed |
|  |  |
| Q15. | Paging increases the \_\_\_\_\_\_ time. |
| Option A: | Waiting |
| Option B: | Execution |
| Option C: | context – switch |
| Option D: | Allocation |
|  |  |
| Q16. | Run time mapping from virtual to physical address is done by \_\_\_\_\_\_\_\_\_\_\_\_ |
| Option A: | Memory management unit |
| Option B: | CPU |
| Option C: | PCI |
| Option D: | process register |
|  |  |
| Q17. | The data-in register of I/O port is \_\_\_\_\_\_\_\_\_\_\_\_ |
| Option A: | Read by host to get input |
| Option B: | Read by controller to get input |
| Option C: | Written by host to send output |
| Option D: | Written by host to start a command |
|  |  |
| Q18. | The host sets \_\_\_\_\_ bit when a command is available for the controller to execute. |
| Option A: | write |
| Option B: | status |
| Option C: | command-ready |
| Option D: | control |
|  |  |
| Q19. | A process is moved to wait queue when I/O request is made with \_\_\_\_\_\_\_\_\_\_\_\_ |
| Option A: | non-blocking I/O |
| Option B: | blocking I/O |
| Option C: | asynchronous I/O |
| Option D: | synchronous I/O |
|  |  |
| Q20. | The usual BUS structure used to connect the I/O devices is |
| Option A: | Star BUS structure |
| Option B: | Multiple BUS structure |
| Option C: | Single BUS structure |
| Option D: | Node to Node BUS structure |
|  |  |
| Q21. | A ……………….. is the basic element of data where individual field contains a single value, such as an employees last name, a data or the value of the sensor reading. |
| Option A: | field |
| Option B: | record |
| Option C: | File |
| Option D: | Database |
|  |  |
| Q22. | …………………….. communicate directly with peripheral devices or their controllers or channels. |
| Option A: | Device drivers |
| Option B: | Physical I/O |
| Option C: | Basic I/O supervisor |
| Option D: | Logical I/O |
|  |  |
| Q23. | …………………… are used mostly in applications where data are rarely processed exhaustively. |
| Option A: | pile |
| Option B: | sequential file |
| Option C: | indexed sequential file |
| Option D: | indexed file |
|  |  |
| Q24. | Which Of The Following Commands Should You Use To Delete Files On A Linux System? |
| Option A: | Mv |
| Option B: | Expunge |
| Option C: | Delete |
| Option D: | Rm |
|  |  |
| Q25. | Identify false statement |
| Option A: | You can find deleted files in recycle bin |
| Option B: | You can restore any files in recycle bin if you ever need |
| Option C: | You can increase free space of disk by sending files in recycle bin |
| Option D: | You can right click and choose Empty Recycle Bin to clean it at once |