No. of Printed Pages : 4

Roll No. ....

180831/170831/ 120831/030831

## **3rd Sem. / Comp, IT, GE Subject : Operating systems**

Time : 3 Hrs.

## M.M. : 100

## **SECTION-A**

Note: Multiple choice Questions. All questions are compulsory (10x1=10)

(Course Outcome/CO)

- Q.1 Which of the following is an operating system? (CO-1)
  - a) Oracle b) Unix
    - c) MS-acess d) Foxpro
- Q.2 How many states of a process are there? (CO-2)
  - a) 6 b) 4
  - c) 2 d) Unlimited
- Q.3 Which of the following is not a scheduling algorithm.
  - a) First come first serve (CO-3)
  - b) Round robin
  - c) Shortest remaining time rest
  - d) Bakers algorithm
- Q.4 A process said to be in \_\_\_\_\_\_ state if it was waiting for an event that will never occur. (CO-5)

(1)

- a) Safe b) Unsafe
- c) Starvation d) Dead lock

180831/170831/ 120831/030831

Which one of the following is the address generated by 0.5 CPU? (CO-6) Physical address b) Absolute address a) c) Logical address None of the mentioned d) Memory management technique in which system stores Q.6 and retrieves data from secondary storage for use in main memory is called: (CO-6) Fragmentation Paging a) b) c) Mapping d) None of the above Which scheduling algorithm allocates the CPU first to **O**.7 the process that request the CPU first? (CO-2) First-come, first-served scheduling a) Shortest: job scheduling b) **Priority Scheduling** c) None of the mentioned d) In priority scheduling algorithm: (CO-3) 0.8 CPU is allocated to the process with the highest a) priority CPU is allocated to the process with lowest b) priority Equal priority process can not be scheduled c) d) None of the above Who developed linux software? 0.9 (CO-8) Dennis M. Ritchie a) b) Linus torvalds c) Bjarne stroustrup d) Grace Murray Hopper (2)180831/170831/

120831/030831

- Q.10 Which command is used to clear the screen or terminal in linux? (CO-9)
  - Chsh Chown a) b)
  - c) Clear d) Clean

**SECTION-B** 

Note: Objective type questions. All questions are compulsory.

(10x1 = 10)

- Q.11 Linux is purely single user operating system (True/ false). (CO-1) Q.12 Name any two states of process. (CO-2)
- Q.13 Name any two output devices. (CO-2)
- (CO-2)
- Q.14 A process have \_\_\_\_\_ states.
- Q.15 The first step in deadlock recovery is to identify (CO-5) process.
- Q.16 Worst fit algorithm is the best for selecting free area of memory for partition(T/F). (CO-6)
- Q.17 CMOS stands for. (CO-7)
- Q.18 Printer is a device. (CO-7)
- Q.19 Printer produces copy. (CO-7)
- Q.20 is an example of multi user operating system. (CO-9)

## **SECTION-C**

Note:	Short	answer	type	questions.	Attempt	any	twelve
	questio	ons out of	f fiftee	en questions.		(12)	x5 = 60
Q.21	What do you understand by system call.						(CO-1)
Q.22	Explain benefits of virtual machine.				(CO-1)		

(3)180831/170831/ 120831/030831

Q.23	What is process control block.						
Q.24	Give name of condition for deadlock	to occur.					
		(CO-5)					
Q.25	What is a physical address.	(CO-6)					
Q.26	What are the advantages of partitioning.	(CO-6)					
Q.27	Write short note on paging.	(CO-6)					
Q.28	What do you understand by virtual memory.	(CO-7)					
Q.29	What are shared devices.	(CO-7)					
Q.30	What do you mean by buffering.	(CO-7)					
Q.31	Explain types and use of scanner.	(CO-7)					
Q.32	Explain logical file system.	(CO-7)					
Q.33	Explain C shell in linux.	(CO-9)					
Q.34	What is the purpose of grep command.	(CO-9)					
Q.35	What is a light pen.	(CO-7)					
SECTION-D							

Note:	Long answer type questions. Attempt an	y two out of
	three questions.	(2x10=20)
Q.36	What are deadlocks? How deadlocks can	be avoided.
		(CO-5)
0.07		$(\mathbf{CO} \mathbf{O})$

- Q.37 Explain the file structure of linux. (CO-8)
- Q.38 Define the term operating system and explain various types of operating systems. (CO-1)

120831/030831

(4) (3640)180831/170831/