SUBJECT CODE NO: - Y-2103 FACULTY OF SCIENCE AND TECHNOLOGY

B.Sc. F.Y (Sem-II)

Examination March / April - 2023 Computer Science Paper-IV CS04 Operating System-I

[Tim	e: 1:30 Hours] Please check whether you have got the right question paper. [Max. Man	rks:50
N. B	 Attempt all questions. Illustrate you answer with suitable example 	
Q.1	a) Define CPU scheduling. Write briefly about the various CPU scheduling algorithm	10
	b) Explain in detail any two types of operating system.	10
	OR ET ST	
	c) What is synchronization? Explain the various problems of synchronization.	10
	d) What is Address binding? Explain logical versus physical address space.	10
		10
Q.2	a) What is demand paging? explain virtual memory in windows XP.	10
	b) Explain disk management in detail	10
	Write short note on (any four)	20
	1) I/O Devices	
	2) Disk scheduling	
	3) Evolution of operating system	
	4) Time sharing system	
	5) Directory structure	
	6) Deadlock modelling	
Q.3	Multiple choice questions.	10
	1) Operating system does not implement multitasking.	
	a) Windows XP b) Windows NT	
	c) Windows 98 d) MS-DOS	
	2) Process synchronization of programs is done by	
	a) Input b) Output c) operating system d) memory	

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3) For execution a process needs	
_	D. D
a) Throughput b) Timer	c) Resources d) Accessories
4) Which one of the following is the a	ddress generated by CPU?
a) Physical address	b) Absolute address
c) Logical address	d) None of the mentioned
age in the same of	
5) Which of these is / are the desirable	e features of an operating system?
a) Extensible b) Portable	c) Reliable d) All of these
6) Program priorities, pre-emption are	the key concept of
a) Batch processing	b) Real time
c) Multiprogramming	d) Time sharing
7) The interface between users and co	mputer called
a) Operating system b) Operating system	rator c) Operation d) None of these
8) Memory management technique in secondary storage for use in main men	which system stores and retrieves data from mory is called?
a) Fragmentation b) Pagin	g c) mapping d) None of these
9) LRU stands for	
a) Line Replaceable unit	b) Linear Repair unit
c) Line Repair unit	c) Linear Replacement unit
10) Which of the following are loaded	l into main memory when the computer is booted?
a) Internal command instructions	b) External command instructions
c) Utility programs.	d) Word processing instructions