Total No. of Printed Pages: 3

SUBJECT CODE NO:- B-2103 FACULTY OF SCIENCE & TECHNOLOGY

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

Examination November/December-2022 Computer Science Paper-IV CS04 Operating System-I

	Operating System-1	, 🗸
[Time: 1:30	O Hours] [Ma	x. Marks:50]
	"Please check whether you have got the right question paper."	
N.B	i) Attempt all questions.ii) Illustrate your answer with suitable example.	FIR STREET
Q.1 a)	Define software. explain in detail functions of operating system.	10
b)		10
	OR SHE SHE	
c)	Define paging. Differentiate between paging and segmentation.	10
d)	What is Semaphore? Explain need for synchronization.	10
Q.2 a)	Define file. Explain free space management.	10
(b)	Write in detail about characteristics of modern operating system.	10
	OR CONTROL OF CONTROL	
	Write short note on (any four)	20
i)) File access	
ii)) I/O Hardware	
iii)) thread	
iv)	Criteria for scheduling	
\mathbf{v}	Personal Computer Systems.	
vi)) Process State.	

Q.3	Multipl	le choice questions.
	01.	Scheduling is
		a) Use to increase CPU utilisation
		b) making proper use of processor.
		c) Both a and b.
		d) None of the above.
	02.	NTFS stands for
		a) New Type File System
		b) New Table File System
		c) New Technology File System
		d) None of the above
		dy None of the above
	03.	The mechanism that bring page into main memory only when it is needed is called as
	03.	The medianism that offing page into main memory only when it is needed is cancil as
		a) Demand paging
	9 ′	
	S	b) Swapping
		c) Paging
		d) Segmentation
Yo.	0.46	
	04.	Address location in main memory is referred to as
	OST TO	a) logical address
	Y	b) physical address
		c) static address
		d) Block associative
	05.	An Operating System is
	, Tie	a) Collection of hardware components.
		b) Collection of I/O devices.
		c) Collection of software routines.
		1\ \tau1\frac{1}{2}\dots \tau1\cdots \tau2\\\

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06.	Brea	king logical memory into blocks of same size is called
	a)	Page Page
	b)	Segment
	c)	Frame
	d)	none of these
		The state of the s
07.	Segn	nentation is the solution of which memory management problem?
	a)	Internal fragmentation
	b)	Segmentation
	c)	external fragmentation
	d)	none of these
6	3	The transfer of the state of th
08.		ad is a dispatch able unit of
		Program
	b)	Work
D	b c)	Time Programme Transfer of the Control of the Contr
	d)	Process
09.	Whic	ch of the following requires a device driver?
6	a)	Register Register
		Cache
	_c)	main memory
	d)	Disk
10.	The l	LRU algorithm
K	a)]	pages out pages that have been used recently
₹°	b)]	pages out pages that have not been used recently
	c)	pages out pages that have been least used recently.
	d) 1	pages out the first page in a given area.