This question paper contains 2 printed pages]

## AA-25-2019

## FACULTY OF SCIENCE AND TECHNOLOGY B.Sc. (CS) (Fifth Semester) EXAMINATION OCTOBER/NOVEMBER, 2019

(CBCS Pattern)

COMPUTER SCIENCE

Paper-(S5.CC.5)

(Operating System)

(Wed	dnesd	lay, 16-10-2019) Time: 10.00 a.m. to	Time: 10.00 a.m. to 1.00 p.m.  Maximum Marks—75	
Time	e—3 <i>E</i>	Hours Maximum		
N.B.	:	(i) All questions are compulsory.	10 0 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	
	(	(ii) Figures to the right indicate full marks.	(X) (A)	
	(i	iii) Assume suitable data, if necessary.	90	
1.	Ansv	ver any five of the following:	$5\times3=15$	
	(a)	What is operating system? Explain.		
	( <i>b</i> )	Explain multiprocessor system.		
	(c)	What is Booting? Explain.		
	(d)	What is job scheduling in OS?		
	(e)	Explain system calls.		
	<i>(f)</i>	Explain multithreading.		
	(g)	List out any four names of operating systems.		
2.	Atte	mpt any two of the following:	$2\times5=10$	
~~	(a)	Explain the responsibilities of an operating system.		
01. E	(b)	Explain command interpreter.		
24/7/3/3	(c)	What is GUI ? Explain.		
3.	Attempt any two of the following:		$2\times5=10$	
V OF IT	(a)	Explain the extended machine concept.		
	(b)	What is process control? Explain.		
600	(c)	What is queues? Explain scheduling queues.		
4.	Atte	mpt any two of the following:	$2\times5=10$	
	(a)	What is priority scheduling? Explain.		
	(b)	What is pthreads? Explain.		

P.T.O.

Explain fragmentation in detail.

(c)

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5.	Answer any two of the following:	2×5=10
	(a) Explain the sequential and direct access methods.	
	(b) Explain paging memory management.	3004777
	(c) What is context switching? Explain.	A CONTROLL OF THE CONTROLL OF THE CONTROLL OF THE CONTROLL OF THE CONTROL OF THE
6.	Answer any two of the following:	2×5=10
	(a) Explain Round-Robin scheduling.	
	(b) Explain contiguous allocation method.	
	(c) Explain computer system organization.	
7.	Answer any two of the following:	$2 \times 5 = 10$
	(a) Explain bit vector space management.	
	(b) Explain segmentation in memory management.	4 6 9 6 6 6 C
	(c) Explain operating system resource manager.	77. 47.9P