

IV Semester B.A./B.Sc. Examination, May/June 2018 (CBCS) (Semester Scheme) (F + R) (2015-16 and Onwards) COMPUTER SCIENCE – IV Operating System and Unix

Time: 3 Hours

Max. Marks: 70

Instruction : Answer all the Sections.

SECTION - A

I. Answer any ten questions. Each question carries two marks.	(10×2=20)
1) What is spooling?	
2) What is semaphore ?	
3) What are the necessary conditions for deadlock?	
4) What is dynamic linking?	
5) What is bit-vector?	
6) What is paging?	
7) What is a shell? Name the types of shell.	
8) What are read-only variables? Give example.	
9) What is the use of expr command? Give example.	
10) What is the use of fork () function in unix?	
11) Explain nohup command.	
12) Write the syntax of if-else-if with an example.	
SECTION - B	
. Answer any five questions. Each question carries ten marks.	(5×10=50)

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16)	•	bliefly explain life protection.	5
,	b)	Consider the track request in disk queue [98, 183, 37, 122, 14, 124, 65, 67], head starts at position 53. Explain and compute the total head movement using SSTF.	5
17)	a)	Explain salient features of unix.	5
	b)	Explain filter commands.	5
18)		Explain the types of process used in unix with examples. Explain different file related commands in unix with syntax and example. (4+6)	5)
19)	a)	Explain different variable types in unix.	
	b)	Write a shell script to reverse a given number and check whether it is palindrome or not. (4+6)	i)
20)	. *	Explain the different looping statements in unix. Write a shell script to count the number of vowels in a given string. (5+5)	5)