

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

Max. Marks: 70 Time: 3 Hours

Instruction: Answer all the Sections.

CECTION - A

	SECTION - A	
L	. Answer any ten questions. Each question carries two marks. (10×2	=20)
	What is spooling? Hedmun nevir is extern of ignor linds a sint/ (sint) The interpolation of the int	
	2) What is semaphore?	20
	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.	N I
	12) Write the syntax of if-else-if with an example.	
	SECTION - B	
	(5x	10=50

1	Answ	er any five questions. Each question carries ten marks.	(0x10=30)	
	12) 0)	What are the functions of operating system? Explain. What is a scheduler? Explain the different types of schedulers.	5	•
	14) a)	Explain Shortest-Job-First-Scheduling (SJF) algorithm with exam Write a short note on swapping.		5
	15) a)	Explain deadlock avoidance with an example. Briefly explain segmentation.	5	5
			P.T.O	1.

	16	a)	Briefly explain file protection.	2
			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.	
	17)	2)		5
	1/)		Explain salient features of unix.	5
		D)	Explain filter commands.	5
	18)	a)	Explain the types of process used in unix with examples.	
			Explain different file related commands in unix with syntax and example. (4+	6)
	19)	a)	Explain different variable types in unix. 108 3 another in the remaining of the remaining o	1
			Write a shell script to reverse a given number and check whether it is palindrome or not. (4+	6)
2	20)	a)	Explain the different looping statements in unix.	,
			Write a shell script to count the number of vowels in a given string. (5+	5)

15) a) What are the longituding or chiraling system & Explain.