## B.Sc. (Part-I) (C.B.C.S. Pattern) Sem-II

## USCST03 - Computer Science Paper-I: Operating System & Linux

P. Pages: 2 GUG/W/19/11576 Time: Three Hours Max. Marks: 50 Notes: 1. All questions are compulsory & carry equal marks. 2. Draw neat and clean diagram wherever necessary. Avoid vague answers and write answers relevant and specific to questions only. 3. 4. Assume the data when & wherever necessary. Either 1. Write a note on Function and Role of Operating system. 5 a) 5 Give details about Time Sharing Operating System. b) OR Describe the concepts of batch operating system. 5 c) Discuss on CPU protection. 5 d) 2. Either a) What is process? List the activities of an operating system with respect to process 5 management. 5 Discuss on command Interpreter system. b) OR Explain main memory management in brief. 5 c) Demonstrate the Networking as an Operating System Component. 5 d) **3.** Either Write a note on structure of LINUX Operating system. 5 a) Discuss on Bourne Shell. 5 b) OR Demonstrate working with the text editing with reference to Vi editor. 5 c) What is the meaning of following LINUX commands. 5 d) \$ ls - l i) ii) \$ mkdir manju yenko tem \$ rm dir kamal kisan indu iii) \$ mv prachi rushi/ratna/mala iv) \$ rm keshao.txt kavita.tmp rajshri.bat. v)

4.		Either		
	a)	Explain in detail about grep command with example.		5
	b) Describe the purpose of ps and kill in brief.		in brief.	5
			OR	
	c)	Give details about chmod command with example.		5
	d)	Demonstrate the shell script to display the contains of anil.edu and hema.bat.		5
5.		All questions are compulsory.		
		a) List the advantage of Multi Pr	ogrammed Operating system.	21/2
		b) Write a note on information n	naintenance.	21/2
		c) Give the meaning of \$ cat -n kiara.txt		2½
		d) Demonstrate creation of varia	ble in shell script with suitable example.	$2^{1/2}$

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