UNIX AND LINUX PROGRAMMING CSE-471			
Tim	ne : Th	nree Hours]	[Maximum Marks : 75
Note : Attempt <i>Five</i> questions in all, selecting at least <i>one</i> question from each Unit. All questions carry equal marks.			
Unit I			
1.	(a)	a) What are the different tasks performed by the Ker in Unix Operating System ?	
	(b)	What are the roles of sh System?	ell in Unix Operating 7
2.	(a)	How many different types Unix Operating System ? I	
	(b)	Explain the time-sharin environment of the Unix O	g and client-server
Unit II			
3.	3. (a) Find out the occurrences of three consecutive identical word characters like aaa or bbb usin (i) grep		
		(ii) sed.	8
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- (b) What is the difference between a wild-card and a regular expression?
- 4. (a) Devlop an AWK program to summarize from the list of all processes, a count of processes run by every user including root.
 - (b) Write a PERL based program that takes a filename as argument, checks whether the file exists and prints binary if the file is binary.

Unit III

- 5. (a) Explain in detail, how debugging with gdb tool is performed to find out the bugs?
 - (b) What is soname? What is the role of dynamic loader in programming?
- 6. (a) What is the significance of Makefile utility in Unix environment? Explain with an example. 8
 - (b) Why does a static library have the lib prefix?
 What suffix does it have? Where are the system's library and include files available?

Unit IV

7. (a) What does bootstrapping process mean and how the finger process display the detailed information about every user currently logged into the Unix system?

- (b) How does a firewall provide the security by restricting the flow of information? Explain. 7
- 8. (a) How does an authorization process ensure about the right person logging into the system?
 - (b) What are the significances of supplying a password while creating a new user in the system?