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END TERM EXAMINATION

FIFTH SEMESTER [B.TECH./M.TECH.] DECEMBER-2012

Paper Code: IT315 **Subject: Linux & Win32 Programming**

Time : 3 Hours **Maximum Marks :60**

Note: Attempt any five questions including Q.no.1 which is compulsory.

Q1 Explain the following commands:- **(5x4=20)**

(a) chmod

(b) chown

(c) fork

(d) make

Q2 (a) Discuss the functioning of 'fstab' file. **(5)**
(b) What are the different boot loaders used by Linux Operating System? **(5)**

Q3 (a) Discuss the various options available for a compiler. Give illustration for each option. **(7)**
(b) What is the use of 'make file' command? **(3)**

Q4 (a) Explain the commands/syntax for cleanup the temporary file system. **(5)**
(b) List atleast '10' commands for signal handling. **(5)**

Q5 (a) How error handling is helpful in Linux operating system? **(5)**
(b) Discuss about the file-locking mechanism in detail. **(5)**

Q6 (a) Discuss the various components of X-windows programming. **(5)**
(b) How Win32 programming is different from X-windows programming? **(5)**

Q7 (a) How the dialog boxes can be created using WIN32 programming? **(5)**
(b) Discuss the various events of keyboard management. **(5)**

Q8 Write short notes on **any two** of the following:- **(5x2=10)**

(a) MFC

(b) Use of regular expression

(c) Semaphores

(d) Memory mapped files

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END TERM EXAMINATION

FIFTH SEMESTER [B.TECH./M.TECH.] DECEMBER 2013

Paper Code: IT315 **Subject: Linux & Win32 Programming**

Time : 3 Hours **Maximum Marks :60**

Note: Attempt any five questions including Q.no.1 which is compulsory.

Q1 Explain the following commands:- (3x4=12)
(a) Addusser
(b) Paste
(c) Du
(d) Who

Q2 (a) Discuss the usage of 'make' and 'makefile' utility. (6)
(b) Discuss the method/procedure to handle the errors in Linux Operating System. (6)

Q3 (a) Discuss the role of 'fork' and 'join' system call in Linux O.S. (6)
(b) Why does linux 0.5 more secure than other 0.S.? Explain in detail. (6)

Q4 (a) Discuss the role of regular expression in Linux Operating System. (6)
(b) Discuss process synchronization. Explain the role of semaphore to synchronise the process. (6)

Q5 (a) Discuss the commands/methods to manage the group activities in Linux 0.S. Prove the command syntax for creating and deleting groups in Linux 0.S. (6)
(b) What do you know about shared memory? How does it used in Linux 0.S? (6)

Q6 (a) Discuss the usage of MFC in Windows programming. (6)
(b) How do dialog boxes and menus design in Windows programming? (6)

Q7 (a) Discuss the various events of mouse management. (6)
(b) Discuss the procedure/functions/commands to manage the printer activity. (6)

Q8 Write short notes on **any two** of the following:- (6x2=12)
(a) MDI
(b) X-Windows programming
(c) File locking procedure

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END TERM EXAMINATION

FIFTH SEMESTER [B.TECH/M.TECH] DECEMBER 2019

Paper Code: IT-315 ***Subject: Linux and WIN32 Programming***

Time: 3 Hours ***Maximum Marks: 75***

Note: Attempt any five questions including Q. No. 1 which is compulsory.

Q1	(a)	Explain the Features of LINUX OS.	**(5)**
	(b)	Define WIN32 and its features in detail.	**(5)**
	(c)	Explain event driven programming in detail.	**(5)**
	(d)	Define memory mapped files in respect to Linux OS.	**(5)**
	(e)	Why Linux is more secure than Windows Operating System. Explain in detail.	**(5)**
Q2	(a)	Explain the directory management in Linux OS. Explain in detail.	**(6.5)**
	(b)	Differentiate between "ADDUSER" and "USERADD" command.	**(6)**
Q3		Explain the following commands used in Linux OS with its syntax.	**(12.5)**
	(a)	Chown (b) Chmod (c) Uniq	
Q4		Explain Inter process communication and its features and methods to implement in Linux OS.	**(12.5)**
Q5	(a)	Differentiate between "exec" and "fork" commands.	**(6)**
	(b)	What is the use of "regular expression" in Linux OS. How it is beneficial in Linux OS.	**(6.5)**
Q6		Define X-Windows Programming. Explain various mouse and keys event management handlers.	**(12.5)**
Q7		Write short note on **any three**	**(12.5)**
	(a)	MFC	
	(b)	Multiple document interface	
	(c)	Clipboard management in X-Windows	
	(d)	Command line processing in Linux OS	

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END TERM EXAMINATION

FIFTH SEMESTER [B.TECH] DECEMBER- 2018

Paper Code: IT-315 **Subject: Linux and Win32 Programming**

Time: 3 Hours **Maximum Marks: 75**

Note: Attempt any five questions including Q.No.1 which is compulsory.

Q1 Attempt **any seven** parts:- **(7x5=35)**

(a) What is LINUX? Who introduced the LINUX?
(b) With example, describe any five LINUX commands.
(c) List the difference between Kernel and Shell.
(d) Write the Windows Programming Code to create Device Independent Bitmap.
(e) What is Zombie in LINUX?
(f) Differentiate between Complier and Interpreter?
(g) List the various features of SDK Programming.
(h) Define a Process. Write a command to create a Process.
(i) In Windows Programming, what is Hungarian Notation? Describe the contribution of Charles Simoyi.

Q2 Describe the FAP (File Access Permission) in Linux? With the help of an example, explain how we can grant or revoke the file access permission of File Owner and group etc. **(10)**

Q3 Give the steps required for the installation of the rpm and deb based packages. **(10)**

Q4 (a) With suitable example, explain the differences between Multiprocessing and Multitasking. **(5)**
(b) Name and explain the environmental variables in LINUX. **(5)**

Q5 Write a windows Program to display the Menu with top level menuitems such as File, Insert, PageLayout etc. Write appropriate code for WndMain() and WndProc() function. **(10)**

Q6 Write a Shell script to display the menu with the following options:- **(10)**

(a) Date
(b) Time
(c) Currently logged in user
(d) Quit
(e) Process Status

Q7 Write short notes on:- **(2x5=10)**

(a) GREP
(b) GDI

Q8 (a) With suitable example, differentiate between SDI and MDI Interface. **(5)**
(b) State the differences between WndMain() and WndProc function in Win32 Programming. **(5)**

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END TERM EXAMINATION

FIFTH SEMESTER [B.TECH] DECEMBER- 2016

Paper Code: IT-315 **Subject: Linux and Win32 Programming**

Time: 3 Hours **Maximum Marks: 60**

Note: Attempt any five questions including Q.No.1 which is compulsory.

Q1 Differentiate between:- **(5x4=20)**
(a) LILO and GRUB
(b) X Windows and Win32 Programming
(c) Semaphore and monitors
(d) MDI and SDI

Q2 Discuss the various features of Linux OS and compare Linux with Windows Qperating system in detail. **(10)**

Q3 Explain the syntax and use of the following Linux commands. **(10)**
(a) rm
(b) dq
(c) sort
(d) cut

Q4 (a) How does error handling perform in Linux OS. Explain in detail with suitable commands/procedure. **(5)**
(b) How does director management happen in Linux OS. **(5)**

Q5 Explain the following commands with proper options and arguments in reference to User management. **(10)**
(a) adduser
(b) useradd
(c) deluser
(d) chmod

Q6 Explain the various features and functions used in keyboard management and mouse management in Win32 programming. **(10)**

Q7 (a) Discuss the role of fork and exec function in process management. How regular expressions are useful in Linux OS. **(7)**
(b) What do you know about Device Independent Bitmaps. Explain in detail. **(3)**

Q8 Write short notes on **any two:-** **(5x2=10)**
(a) Library file and make command in Linux OS
(b) IPC in Linux OS
(c) Clipboard management in Win32 programming

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END TERM EXAMINATION

FIFTH SEMESTER [B.TECH] DECEMBER 2015

Paper Code: IT-315 **Subject: Linux & Win-32 Programming**

Time: 3 Hours **Maximum Marks: 60**

Note: Attempt any five questions including Q.no.1 which is compulsory.

Q1 Explain briefly about: **(5x4=20)**
(a) MFC
(b) X-Windows
(c) Binary files
(d) Handlers

Q2 Discuss the various commands and user permissions to manage the various types of user in Linux Operating System. **(10)**

Q3 Explain the following commands with example: **(10)**
(a) du (b) diff (c) kill (d) cat

Q4 Discuss 'make' command. What are its benefits? Give an example to understand the concept of this command. **(10)**

Q5 (a) How does the process management handle in Linux OS? **(5)**
(b) Define regular expression. What is the role of regular expression in Linux operating system. **(5)**

Q6 (a) Discuss the various events of mouse management. **(5)**
(b) Define palette manager. Discuss its role and responsibilities. **(5)**

Q7 (a) Define IPC and its various protocols/procedures to handle communication issues. **(5)**
(b) Define Semaphores. What is the role of semaphore in Linux operating systems? How it is implemented in Linux? **(5)**

Q8 Write short notes on **any two**: **(5x2=10)**
(a) Error handling
(b) Fork & exec commands
(c) Printer management in WIN 32 programming

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END TERM EXAMINATION

FIFTH SEMESTER [MCA] NOVEMBER-DECEMBER 2017

Paper Code: MCA-301	***Subject: Linux Programming***
Time: 3 Hours	***Maximum Marks: 75***

Note: Attempt any five questions including Q.no.1 which is compulsory. Select one question from each Unit.

Q1 Explain briefly: **(6.25x4=25)**
(a) Networking on Linux.
(b) Types of files & file permissions in Linux.
(c) Different shells and their features in Linux.
(d) Explain bind () and connect () system calls in Linux.

Unit-I

Q2 (a) Explain the powers of root. **(6)**
(b) Compare "ext2" and "ext3" file systems. **(6.5)**

Q3 (a) Explain different commands to check & repair file system in Linux. **(6)**
(b) Explain different run levels in Linux and commands to change them. **(6.5)**

Unit-II

Q4 (a) Explain the memory management process in Linux. **(6.5)**
(b) Explain the life cycle of a process in Linux. Also define Zombie process. **(6)**

Q5 Explain the different ways of inter process communication used in Linux. **(12.5)**

Unit-III

Q6 (a) Explain the usage & options of following commands: **(2.5x3=7.5)**
(i) find
(ii) ps
(iii) cron
(b) Differentiate between egrep and fgrep using suitable example. **(5)**

Q7 (a) Write shell script to print greatest of three numbers entered by the user. **(6.5)**
(b) What is sed? Explain the difference purpose of sed with example. **(6)**

Unit-IV

Q8 Define sockets in Linux? Write a program in C language to create and destroy a socket and also explain the usage of socket programming. **(12.5)**

Q9 What are the different steps to connect two processes running on different machines using socket programming? Explain in detail. **(12.5)**

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END TERM EXAMINATION

FIFTH SEMESTER [MCA] DECEMBER 2013

Paper Code: MCA 301 **Subject: Linux Programming(new)**

Time : 3 Hours **Maximum Marks :60**

Note: Attempt any four questions including Q. no. 1 which is compulsory.

Q1 (a) Illustrate expr command with example.
(b) What are inodes.
(c) Highlight the case-esac construct syntax with example.
(d) Compare shell script with C language.
(e) Write shell program to generate first *n* prime numbers. **(3x5=15)**

Q2 (a) Explain the use of Regular Expression in Linux with suitable examples. **(8)**
(b) Explain grep filter along with its syntax & options. How is grep different from egrep & fgrep. **(7)**

Q3 (a) Explain how dependency calculations are performed in a make file in Linux. **(7)**
(b) Explain the conditional & control structures in shell scripting with examples. **(8)**

Q4 Explain the architecture of Linux OS with highlight on redirection pipes & filter with aid of examples. **(15)**

Q5 Explain the backup & restore utilities in Linux. **(15)**

Q6 Explain the working modes of the Vi editor. **(15)**

Q7 How can a process be created in Linux. Discuss the various means available to delay or stop a process. **(15)**

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Sig kill
Sig Term
Sig CHILD (Zombie process)
SIG STOP

SIG-INT (delay)
SIG_ING