

MT-156

D/SC-M2011131

**M.Sc. (IT & CA) (Sem.-II) Examination
May-2014**

CMY 2002 : Linux Administration & Linux Networking

**Faculty Code : D/SC
Subject Code : M2011131**

Time : 2 ½ Hours]

[Total Marks : 70

- Instructions :** (1) Draw figures wherever require.
(2) Give example wherever require.

1. Attempt any **ten** :

30

- (1) Explain export and eval command.
- (2) Explain types of shell.
- (3) Explain FTP Server.
- ✓(4) Explain awk command.
- (5) Explain fdisk command.
- (6) Explain diff and comm command.
- (7) Write a script to print 1 2 3 4 6 7 8 9.
- (8) Write a script to calculate sum of two numbers at command line.
- ✓(9) Write a script to find minimum from two number using function.
- (10) Write a script to display all name of files in current directory.
- (11) _____ command change the last modification time and access time of the given file and PWD stands for _____.
- (12) Explain case statement.

2. Explain any **six** :

30

- (1) What is array ? How to define and use array ? Explain with example.
- (2) Explain Kernel Architecture of Linux.
- (3) Explain file compressing and uncompressing commands in Linux.
- (4) Explain User and File permission in Linux.
- (5) Explain X Windows System.
- (6) Explain NFS and NIS.
- (7) Explain CVS.

3. Describe any **one** :

10

- (1) Describe Samba Server.
 - (2) Describe Clustering on Linux.
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MU-2011131

Seat No. _____

M. Sc. (IT) (Sem. II) Examination

April / May - 2012

CMY 2002 : Linux Administration & Linux Networking

Time : 3 Hours]

[Total Marks : 70

- 1 Attempt the following : (any five) 30
- (1) Explain shell and kernel in LINUX.
 - (2) Explain Decision control statements with example.
 - (3) Explain File system mounting.
 - (4) Explain Configuration of FTP server.
 - (5) Explain DNS.
 - (6) Explain Network file system.
- 2 Attempt the following commands : (any six) 30
- (1) Explain finger command with example.
 - (2) Explain Apache web server.
 - (3) Explain Samba server and Mail server.
 - (4) Explain text editor of Linux.
 - (5) Explain hard link and soft link.
 - (6) Explain tail command.
 - (7) Explain Clustering on Linux.
 - (8) Explain diff, tar and cat commands.
- 3 Attempt the following : (any two) 10
- (1) Write a Shell Script to check whether given number is even or odd.
 - (2) Write a Shell Script to accept any number by command line argument and display sum of all digits of that number.
 - (3) Write a Shell Script to display all arguments provided by command line.
 - (4) Explain Hard Link and Soft Link.



RP-2011131

Seat No. _____

M. Sc. (IT & CA) (Sem. II) Examination

June - 2011

CMY - 2002 : Linux Admin. & Linux Networking

Time : 3 Hours]

[Total Marks : 70

- 1 Attempt any **five** of the following : 15
- (i) What is shell script and explain use of read statement.
 - (ii) Create a shell script called intmath.sh, set x, y, z to integer data type and perform all arithmetic operations (such as addition, subtraction, division, multiplication).
 - (iii) Explain eval with suitable example.
 - (iv) Explain local and global shell variable with suitable example.
 - (v) Explain and list out different way of declaring constant variable with suitable example.
 - (vi) What are processes ? And how Linux command related with processes.
- 2 Attempt any **four** of the following : 20
- (i) Explain file and directory structure of Linux.
 - (ii) Write and explain steps for configuring Internet with Linux.
 - (iii) Explain Message box, Confirmation Box and Input Box utility with suitable example.
 - (iv) Write a note on regular expression and how to Replace word with confirmation for user explain with help of regular expression.
 - (v) Discuss Package manager utility.
- 3 Attempt any **two** of the following : 15
- (i) Explain DSN and steps of how to configure DSN.
 - (ii) Write a short note on Samba server.
 - (iii) Explain mounting and unmounting file system with suitable example.

4 Attempt any **two** of the following :

20

- (i) Write a script for the following :
 - (a) Write a shell script finding out biggest number from given three number supplied as command line argument.
 - (b) Write a shell script to find whether entered year is leap year or not.
- (ii) Write a shell script for the following :
 - (a) Write a shell script to convert file name from upper case to lower case file name or vice versa.
 - (b) Write a shell script to gather useful system information such as CPU, DISK, RAM and system environment.
- (iii) Write a note on DHCP and how to configure Client/Server DHCP set up.

M Sc.(IT & CA) Sem. 2 Examination

CMY2002 Linux admin. & Linux Networking

Time: 3: Hours

Total Marks: 70

Q-1. Answer the following question in Detail (Any Five): [30]

- 1) What is UNIX? Explain its Kernel
- 2) Differentiate linux text editor vi and pico
- 3) Explain conditonal statements with example
- 4) What is the use of exporting shell variables? Explain
- 5) Explain fdisk L command
- 6) Write a note on user and super user in linux

Q-2. Answer the following question (any 4): [20]

- 1) What is DNS? Explain
- 2) Write a note on Add & remove software packages with package manager
- 3) Explain Add & remove software packages with package manager
- 4) Explain steps for Configuration of FTP server
- 5) Write a note fstab for mountable file system with example

Q-3. Answer the Following Questions : (Any Four) [20]

- 1) Explain Basic concepts of POP3 and IMAP
- 2) Write steps for Configuration of NFS
- 3) Explain send mail server with its installation and its use
- 4) Write a note on Sampba Server
- 5) Explain MYSQL user administration for creation and management

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