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Total No. of Pages : 04

Total No. of Questions : 14

MCA (Sem.-5)
LINUX OPERATING SYSTEM
Subject Code : MCA-504C
Paper ID : A0533

Time : 3 Hrs.

Max. Marks : 75

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A will be compulsory and have 20 questions of 1 mark each.
2. SECTION-B will have 8 short answer type questions of 5 marks each, out of which candidate will have to attempt any 5.
3. SECTION-C will have 5 long answer type questions of 10 marks each, out of which candidate will have to attempt any 3.

SECTION-A**1. Multiple Choice Questions :**

- a) Which binary format is supported by Linux?
 - a. elf
 - b. a.out
 - c. both a. and b.
 - d. Neither a. nor b.
- b) Which one of the following bootloader is not used by linux?
 - a. GRUB
 - b. NTLDR
 - c. LILO
 - d. None of the above
- c) Which of the following commands is used to set terminal IO characteristics?
 - a. tty
 - b. cttty
 - c. pttty
 - d. stty
- d) Which command is used to identify the file type?
 - a. Type
 - b. File
 - c. Finfo
 - d. Info





- e) What approach does an application use to communicate with the kernel?
- a. System calls
 - b. C Programs
 - c. Shell Script
 - d. Shell
- f) hardware architectures are not supported by Red Hat?
- a. Spark
 - b. Alpha
 - c. IBM
 - d. Macintosh
- g) Linux operating system is :
- a. Proprietary
 - b. Open source
 - c. Both a. and b.
 - d. None of the above
- h) Which of the following is a command in Linux?
- a. w
 - b. x
 - c. t
 - d. All of the above
- i) Which of the following commands can be used to change default permissions for files and directories at the time of creation?
- a. chmod
 - b. chown
 - c. umask
 - d. chgrp
- j) #!/bin/bash is commonly called as
- a. shebang
 - b. hashbang
 - c. script initialiser
 - d. Both a. and b.

Fill in the blanks and state True or False :

- k) The full form of BASH is
- l) LILO is a for Linux.





- m) The works like system administrator and gives full control over a system.
- n) The pwd command stands for
- o) There are three kinds of permission in Linux, namely, read, write and
- p) Swap space in Linux temporary hold the current running programs.
- q) Ctrl+Alt+Delete does not work in Linux.
- r) The preferred size for a swap partition is twice the amount of physical memory.
- s) Hard links point directly to the physical file on disk, and not on the pathname.
- t) /usr/local contains files which are not locally installed.

SECTION-B

- 2. Bring out the major differences between Windows 2000 and Linux.
- 3. Write the necessary steps to install a new package and uninstall a package with Red Hat Linux.
- 4. Explain the Linux File system in detail and describe the process of adding and partitioning a disk.
- 5. Enlist the various tasks that are performed by LinuxConf Package?
- 6. Define booting process. Outline the steps to create boot disk and booting.
- 7. Describe KDE and role of KDE control centre. Also differentiate its features with GNOME.
- 8. Write a shell script to accept Filename from a user and delete that file if it already exist else provide appropriate message to the user.
- 9. Explore the following w.r.t directory services in Linux :
 - a. Purpose of root directory
 - b. Working of directory structure



SECTION-C

10. Describe the complete process of installing software in Linux operating system step by step along with answers to the following :
 - a. How to query a package?
 - b. How to uninstall a package
11. Explain BASH along with discussion on the concept of job control and environment variables, pipes and redirection.
12. Discuss Quota Management w.r.t to file systems and also explain quotachk, repquota and quota tools.
13. Suppose you already have a large swap file in your Windows partition. Is there a way for Linux to use that swap space instead of creating another file? Justify your answer with proper claim and also discuss all related concepts.
14. Write short notes on following :
 - a. Network File Systems
 - b. GNOME Configuration tool
 - c. Domains and Active Directory
 - d. Configuring LILO

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.