No. of Printed Pages—3

868 (LSA)

[20-HRGPNW–D5S(N)21A]

BCA 5th Semester (New) Exam., 2020 (W)

LINUX SYSTEM ADMINISTRATION

[GCA S5–01]

(Theory)

Full Marks : 50

Time : 2 hours

The figures in the margin indicate full marks for the questions

1. *(a)* Answer the following questions : 1×4=4

(i) What is 'pwd' in Linux OS?

(ii) How will you print your current working directory?

(iii) Which is the default desktop environment in Fedora?

(iv) What is the significance of the 'cat' command?

(b) Choose the correct option : 1×4=4

(i) Device files are located in a directory called

1. /dev
2. /device
3. /etc
4. /drivers

(ii) Any files attribute information is stored in which structure on the disk?

1. inode
2. Data blocks
3. File blocks
4. Directory file

(iii) A DNS database contains which of the following?

1. Hostname to address records
2. Name server record
3. Hostname aliases
4. All of the above

(iv) Which of the following commands is used to count number of lines in a file?

1. WC-l
2. WC-c
3. WC-w
4. None of the above

(c) Fill in the blanks : 1×4=4

(i) Shell is an interface to the _____.

(ii) _____ command is used for displaying contents of a file.

(iii) _____ command allows the user to search contents of a file for a particular pattern.

(iv) _____ command is used to list all the jobs that are currently running or suspended.

2. Answer any *five* of the following questions : 2×5=10

(a) What are some of the popular linux distributions?

(b) What is Master Boot Record (MBR)?

(c) What is a pipe?

(d) Compare between rm and rmdir command.

(e) What is the syntax for declaring arrays in shell script?

(f) State the functions of lpc and lqc commands.

3. Answer any *four* of the following questions : 4×4=16

(a) What is Kernel in Linux system? Describe the role of Linux kernel.

(b) Write a program using shell script to display the even natural numbers from 10 to 50.

(c) Explain with example the use of ping command.

(d) Explain in brief the function of SQUID proxy.

(e) Discuss the different types of preventive measures to prevent DoS attack.

4. Answer any *two* of the following questions : 6×2=12

(a) Compare the features of ext2, ext3 and ext4 file system.

(b) Explain how we use chmod command to change permission of files.

(c) What are the different commands used to monitor the memory usage and disk space usage?

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