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44/52 (6) BCA/ITB-HC-6016 SADL

2024

**SYSTEM ADMINISTRATION
USING LINUX**

Paper : BCA-HC-6016/ITB-HC-6016

Full Marks : 60

Time : Three hours

***The figures in the margin indicate
full marks for the questions.***

1. Answer the following questions : $2 \times 5 = 10$

(a) What do you mean by System Administrator?

(b) What are *two* types of Linux user mode?

(c) What is the difference between the home directory and the working directory?

(d) Define absolute and relative path names.

(e) Write the function of if config command.

Contd.

2. Write the use and syntax of the following Linux commands : $1 \times 10 = 10$

(i) mk dir

(ii) pwd

(iii) ls-a

(iv) chown

(v) who

(vi) su

(vii) umask

(viii) echo

(ix) sort

(x) kill

3. Answer the following questions : **(any three)**

(a) What is the Linux shell ? What types of shells are there in Linux ? Write the use of them. $2+3+5=10$

(b) Write the meaning of the following Linux commands : $2 \times 5 = 10$

(i) chmod ug+x linux.txt

(ii) chmod 755 dnx.txt

(iii) chmod a-rw shell.txt

(iv) chmod 777 process.txt

(v) chmod o-rwx abc.txt

(c) Describe about the format and specification of the `/etc/shadow` file. 10

(d) Briefly explain the directory structure of Linux Operating System. 10

(e) Briefly explain the different classes of IP address. Write *five* differences between IPv4 and IPv6 address. 5+5=10

4. Write short notes on : **(any two)** 5×2=10

(a) Piping and redirection

(b) Hard link and soft link

(c) Netstat and ping

(d) System Monitoring and logging
