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63/2 (SEM-3) CSIT 3.6

2021

(held in 2022)

CSIT

(Theory Paper)

Paper Code : CSIT- 3.6

(EL-5 System Administration)

Full Marks – 80

Time – Three hours

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

1. Answer any *ten* of the following questions :

2×10=20

- (a) What are the primary task for a system Administration ?**
- (b) What are the Linux Shell available in Linux OS ?**
- (c) What are the advantages of Open Source Software ? Give a name of Open Source Software.**

[Turn over

- (d) Write the Commands (Linux) to create an user account and password.
- (e) What are uses of HIC Card ?
- (f) What is cloud ?
- (g) What are types of communication in Computer Network ?
- (h) Name the command to run a Java program in vi edition.
- (i) What is RAID ?
- (j) Write the anatomy of co-axial cable.
- (k) Write the command to broadcast a message in Linux.
- (l) What is the purpose of 'Switch' in a computer Network ?

2. Answer any *five* of the following questions :

3×5=15

- (a) Explain how to change the file access permission mode for user, group and others in Linux.
- (b) Give an overview of Network Security and Intrusion – Detection.

- (c) What is the function of Gateway in a Computer Network ?
- (d) What are the basic differences between a hub and a switch.
- (e) Explain the working principle of Fiber Optics Cable.
- (f) Write a brief overview of Firewall.
- (g) How Radio waves works in Computer Nertwork ?

3. Answer any *three* of the following questions :

5×3=15

- (a) Write a shell program to display Fibonacci numbers upto n term.
- (b) Write a shell program to reverse the digits of an integer number.
- (c) Write a shell program to find the biggest between three integer numbers.
- (d) Write a shell program to check an integer number is prime or not.

4. Answer any *two* of the following questions :

10×2=20

- (a) Write the installation procedure of any Virtual Machine in your system and also write the installation procedure of any operating system in your Virtual Machine
- (b) Give an overview of Linux File System.
- (c) Explain the configuration procedure of FTP Server in your system.

5. Write short notes on any *two* :

5×2=10

- (a) TELNET
- (b) DHCP Server
- (c) Proxy Server.