(i) **Printed Pages : 3**   Roll No. ....

(ii) **Questions** : 9   · **Sub. Code :** | 0 | 5 | 7 | 9 |
                          Exam. Code : | 0 | 0 | 0 | 6 |

B.A./B.Sc. (General) 6th Semester

1048

INFORMATION TECHNOLOGY (Elective)
Paper–B : Linux Administration

Time Allowed : Three Hours]   **[Maximum Marks : 65**

Note :— Attempt **five** questions in all by selecting **one** question from each section. Entire Question Number IX is compulsory.

SECTION—A

I. (a) What is Operating System ? Describe its need and services.

   (b) Explain the working of the Distributed and Parallel systems. How are they different from earlier Operating Systems ?

                                                                7,6

II. (a) Write steps to install Linux. Also describe the major issues that arise during installation.

   (b) Explain the commands and files used for managing passwords in Linux.   7,6

SECTION—B

III. (a) What is Input and Output redirection ? Name and explain any three commands which use redirection.

   (b) Explain the role of wildcards and environment variables in Linux. Explain their usage with examples.   7,6

IV. (a) Explain the commands used to create, list and delete directories.

(b) What are UMASK settings ? Why are they used ? 7,6

SECTION—C

V. (a) Explain the usage of 'if' and 'case' decision making statements with syntax and examples.

(b) Explain the usages of 'while' and 'for' looping statements with syntax and examples. 7,6

VI. (a) Write short note on vi editor. Explain the commonly used commands which make its working easier for the user.

(b) Write short note on positional parameters and built-in shell variables. 7,6

SECTION—D

VII. Explain the following in the context of Linux :

(i) Mounting and un-mounting File systems.

(ii) Starting and stopping the system and setting the login message.

13

VIII. Explain the following in the context of Linux :

(i) TCP/IP

(ii) WWW

(iii) DNS. 13

SECTION—E

(Compulsory Question)

IX. Write short answers :—

(i) How is a running process identified and killed ?

(ii)   What are the default permissions for files and directories in Linux ?

(iii) Why and how 'su' command is used in Linux ?

(iv)   What is bash ?

(v)   What is the role of tar command in Linux ?

(vi)   What is the purpose of FTP command ?

(vii) What is the name of Linux's own file system ?   (6×2)+1