

Diploma (One Year) (B.Voc.) Semester-II (Software Development) Examination**OPERATING SYSTEM CONCEPTS AND LINUX****Compulsory Paper—IV**

Time : Three Hours]

[Maximum Marks : 70

N.B. :— All questions are compulsory and carry equal marks.**EITHER**

1. (a) What is Process ? Explain about process control block. 7
- (b) Explain the structure and function of operating system. 7

OR

- (c) Write notes on :
 - (i) Compaction
 - (ii) Single Partition Allocation. 7
- (d) What is page fault ? Describe the action taken by the operating system when a page fault occurs. 7

EITHER

2. (a) What are the different file allocation methods. 7
- (b) What is I/O Buffering ? Explain the different types of Buffering. 7

OR

- (c) Explain different file directory structures. 7
- (d) Write and explain the file accessing methods. 7

EITHER

3. (a) Explain the anatomy of Linux Operating System. 7
- (b) Explain the following commands with syntaxes and example :
 - (i) ls
 - (ii) mv
 - (iii) cat
 - (iv) cp. 7

OR

- (c) Explain the /usr Directory Structure. 7
- (d) Write note on gunzip and tar commands. 7

EITHER

4. (a) Explain the top utilities in Linux. 7
- (b) Explain the difference between df and du commands. 7

OR

- (c) Write notes on :
 - (i) PS Command
 - (ii) Free Command. 7
- (d) Give the syntax and purpose of 'who' and 'who am i' Command. 7

5. Attempt **all** :

- (a) Write the difference between process and thread. 3½
- (b) Write note on I/O hardware. 3½
- (c) What are different file types in Linux ? 3½
- (d) Write notes on :
 - (i) finger
 - (ii) mesg. 3½