

May - 2016

Total No. of Questions—8]

[Total No. of Printed Pages—3

Seat No.	
-------------	--

[4957]-1074

S.E. (Computer Engg.) (Semester I) EXAMINATION, 2016

OPERATING SYSTEM AND ADMINISTRATION

(2012 PATTERN)

Time : Two Hours

Maximum Marks : 50

N.B. :— (i) Attempt Q. No. 1 or Q. No. 2, Q. No. 3 or
Q. No. 4, Q. No. 5 or Q. No. 6, Q. No. 7 or Q. No. 8.

(ii) Neat diagrams must be drawn wherever necessary.

(iii) Figures to the right indicate full marks.

(iv) Assume suitable data, if necessary.

1. (a) Draw and explain the architecture of Unix system. [6]

(b) What is file system ? Explain file pathnames in detail. [6]

Or

2. (a) Draw and explain the 4 state process diagram. [6]

(b) What is shell ? Explain any five commands. [6]

3. (a) Explain the concept of GRUB in detail. [6]

(b) Define and explain Access Control List. [6]

P.T.O.

Or

4. (a) Explain the following commands : Cat, Head, Tail, Nice, Touch and Mount. [6]
- (b) Explain the run levels of Booting process in Unix. [6]
5. (a) Define the user mode and Kernel mode. Give the difference between them. [7]
- (b) Explain the unix access permission with example. [6]

Or

6. (a) Explain runaway processes Sudo command and su command with example. [6]
- (b) Give the difference between process Id and Parent process Id. [4]
- (c) Define : [3]

Top, UID, and GID.

7. (a) Explain the concept of file system mounting. [4]
- (b) Explain the following : [6]
- (i) fsck
- (ii) mkfs
- (iii) file system unmounting.
- (c) Write a note on /etc/ passwd file. [3]

Or

8. (a) Explain disk partitioning and disk formatting. [4]
- (b) Explain minimum password age, maximum password age, password inactivity period. [3]
- (c) Write basic steps of adding user with example. [6]