

Total No. of Questions—8]

[Total No. of Printed Pages—2

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

[5152]-164**S.E. (Computer Engg.) (I Sem.) EXAMINATION, 2017****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) What do you mean by user perspective of operating system ?
Explain the assumptions about H/W. [6]
 - (b) Explain the file system data structures of Unix with neat diagram. [6]
- Or*
2. (a) How process is executed in kernel and user mode ? Explain with example. [6]
 - (b) Write difference between Block IO devices and Row IO devices. [6]
3. (a) Explain types of files in Unix. Also explain input, output and error redirection. [6]
 - (b) What is GRUB ? Explain in detail. [6]

P.T.O.

Or

4. (a) Explain in detail the run levels of Booting process in Unix. [6]
 (b) Explain python dictionaries and tuples. [6]
5. (a) Explain runaway processes sudo command and su command with example. [6]
 (b) Explain the command useradd and userdel with example. Also explain command for creating group. [7]

Or

6. (a) Define nice, renice and ps in detail with example. [7]
 (b) Explain methods of disk partitioning. [6]
7. (a) Explain the modern access control with traditional Unix access control. [6]
 (b) Explain the process of mounting and unmounting a USB drive. [7]

Or

8. (a) Define the role of user mode and kernel mode. Give the difference between them. [7]
 (b) Give the entries of /etc/shadow and /etc/group file. [6]