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**[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]