



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

S.E. (Computer Engineering) (Semester –I) Examination, 2014
OPERATING SYSTEM AND ADMINISTRATION
(2012 Course)

Time : 2 Hours

Max. Marks : 50

- Instructions :** 1) 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.
 2) **Neat** diagrams must be drawn **wherever** necessary.
 3) Figures to the **right** indicate **full** marks.
 4) Assume suitable data if **necessary**.

- 1. a) What is shell ? What are the different types of commands in shell ? Give some examples. 6
- b) What are the different functions of kernel ? 6

OR

- 2. a) What do you mean by user perspective of operating system ? 6
- b) Explain kernel data structure. 6
- 3. a) What are the different file access methods ? 6
- b) Explain the concept of GRUB in detail. 6

OR

- 4. a) Explain with diagram Linux File Systems. 6
- b) Write short note on : 6
 - i) Bash Scripting
 - ii) Python Scripting
- 5. a) Explain access control in Unix OS. 6
- b) What is the difference between interrupts and exceptions ? 4
- c) What is strace command ? 3

OR

- 6. a) Explain different identities like userid, effective user id, saved user id, real user id. 6
- b) How kill command can be used with runaway processes ? 4
- c) Write short note on nice and renice. 3

210244



7. a) Explain concept of file system mounting. 6
b) Explain different features of RAID 0 and RAID 1 in brief. 4
c) What is fsck ? 3
- OR
8. a) What are the content of /etc./shadow file ? 6
b) Explain minimum password age, maximum password age, password inactivity period. 4
c) Explain fdisk command. 3

B//14/