Seat
No.

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

Time : 2 Hours   Max. Marks : 50

Instructions : 1) Aettempt 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 runway processes ? **4**

   c) Write short note on nice and renice. **3**

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**

————————