Seat
No.

[4757]-1074

S.E. (Computer Engg.) (First Semester) EXAMINATION, 2015

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 high level architecture of unix systems. [6]

(*b*) Write a short note on interrupts and exceptions. [4]

(*c*) Explain batch processing and multiprogramming. [2]

Or

2. (*a*) Explain **4** state process diagram. [6]

(*b*) What do you mean by user and hardware perspective of operating

system ? [4]

(*c*) List any *two* functions of an OS. [2]

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3. (*a*) Explain organization of the file hierarchy tree. [6]

(*b*) Explain types of files in unix. [3]

(*c*) Explain input, output and error redirection. [3]

Or

4. (*a*) Explain the entire process of booting (system turn on to login prompt). [6]

(*b*) Differentiate between grub and LILO. [4]

(*c*) Define a shell. [2]

5. (*a*) Which *two* signals can never be ignored ? [2]

(*b*) Explain signal and kill function with parameters. [4]

(*c*) What are real effective and save ids. [3]

(*d*) Differentiate between nice and renice (with examples). [4]

Or

6. (*a*) Differentiate between user mode and kernel mode instructions. [4]

(*b*) How does a user level process change to kernel mode ? Explain. [2]

(*c*) Explain how kill function can be used to send signal to a group of processes also give the syntax of kill function. [4]

(*d*) What is the shadow password file ? Where does user password reside in unix. [3]

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7. (*a*) Write a short note on RAID and its levels. [6]

(*b*) Explain the process of mounting and unmounting a pendrive. [4]

(*c*) Explain the fields in /etc/group file. [3]

Or

8. (*a*) What is meant by disk partitioning and disk formatting. [4]

(*b*) What is the native file of Linux and Unix. Differentiate between Unix and Linux. [4]

(*c*) What are the startup files ? What are its tasks ? [3]

(*d*) How to set the password for user account in linux/unix. [2]