Total No. of Questions—8] [Total No. of Printed Pages—2

Seat No.	

[5352]-164

S.E. (Computer Engg.) (I Sem.) EXAMINATION, 2018
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*) Enlist any six features of UNIX operating system. [6]
(*b*) Explain the file system data structures of UNIX with neat diagrams (UFDT, FT and IT). [6]

OR

2. (*a*) Enlist the characteristics of Unix file system. [6]
(*b*) Draw and explain the block diagram of system kernel. [6]

3. (*a*) Write a short note on bootstrapping. [6]
(*b*) List the various file access permissions that can be assigned in NFSv4 system. [6]

OR

4. (*a*) Explain the run levels of booting process in Unix. [6]
(*b*) Explain the following commands in Unix :
grep, pipe, stat, mount, chmod, ln [6]

P.T.O.

5. (*a*) What is role based access control ? [6]

(*b*) Write a short note on signal handling. List and explain any 6 signals. [7]

OR

6. (*a*) Explain how kill function can be used to send signal to a group of process. Also give the syntax of kill function. [4]

(*b*) What is a shadow password file ? Where does user password reside in Unix ? [3]

(*c*) Differentiate between user mode and kernel mode instructions. Explain how does a user level process change to kernel level. [6]

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

(*b*) What are storage devices ? Explian any *three* of them. [6]

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

OR

8. (*a*) Define disc partitioning. Explain the following : [7]

(*i*) useradd

(*ii*) userdel

(*iii*) RAID

(*b*) Write short notes on the following : [6]

(*i*) File system polymorphism

(*ii*) File system mounting