(3 Hours)   [Total Marks: 80]

1. **Question 1 is compulsory.**
2. **Solve any three questions from remaining**
3. **Consider suitable data wherever necessary.**

Q1a. Describe /etc/passwd, /etc/group and /etc/shadow file with respect to user administration.   10M

Q1b. Discuss process management in Linux along with the relevant command for process management.   10M

Q2a. How the activity is created? Draw and explain the activity life cycle   10M

Q2b. What is data persistency in Android?   10M

Q3a. Explain the concept of vi editor and give commands.   10M

Q3b. write shell script for print   10M

   i) $

        $ $

        $ $ $

        $ $ $ $

  ii) Finding the biggest number among the three numbers.

Q4a. Explain networking command   10M
     A. nslookup
     B. traceroute
     C. host
     D. ping
     E. ifconfig

Q4b. Explain different types of DNS servers.   10M

Q5a. What is file permission? Explain different ways of setting permission.   10M

Q5b. what are the packages required to configure a secure server with SSL? How can we obtain a digital certificate from certifying authority?   10M

Q6. a. Explain following user commands with examples.   10M
   i.   adduser
   ii. usermod
  iii. chgrp
   iv. chmod
   v. deluser

Q6.b. How to configure apache web server.   10M

6411BAACBDB111F71B9C4DB43E9BBE24