

(3 Hours)

Marks : 80

- N.B. (1) Question number 1 is compulsory.  
 (2) Solve any 3 from remaining.  
 (3) Assume suitable data where ever necessary.

Q.1. Attempt the following:

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- a. compare hard and soft links.
- b. Explain Linux file access permissions.
- c. List 5 Environment variables. Describe their role.
- d. Explain Activity Life-cycle using neat Labeled diagram.

Q.2.

- (a) Explain role of /etc/passwd, /etc/shadow, /etc/group files with respect to user administration 10
- (b) Write short note on 'working with web using shell script'. 10

Q3.

- (a) Explain use of grep command. Also give examples of use of c, i and v option with grep. 10
- (b) Write a note on process management in Linux along with the relevant commands for process management. 10

Q4.

- (a) Explain File System Hierarchy (FHS) of Linux. 10
- (b) Write note on iptables and its use as firewall with examples. 10

Q5.

- (a) Explain role of Logical Volume Manager in Linux Kernel. 10
- (b) Explain the use of following Networking commands: i) ping ii) arp iii) host iv) traceroute v) ifconfig 10

Q6

- (a) Explain sed and with an example shell script explain its usage for replacing a pattern in given input. 5
- (b) What are different layouts possible for a view derived from ViewGroup base class. 5
- (c) Describe role of Intent in Android Programming. 5
- (d) What is the role of init signal. 5

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