

Please check whether you have got the right question paper.

- N.B:
1. Question.No.1 is compulsory.
  2. Solve any 3 from remaining.
  3. Assume suitable data where ever necessary.

- Q.1** Attempt the following: **20**
- a. Compare open source softwares with closed source softwares.
  - b. How to secure servers with Iptables.
  - c. Explain backup related commands in Linux.
  - d. Describe role of Intent in Android Programming.
- Q.2** a) Explain various open source software licenses. **10**
- b) Write note on sed. Show how can it be used in following cases **10**
- i) As replacement for head command.
  - ii) As utility for deleting all occurrences of string “UNK” from input.
- Q.3** a) Explain commands for new user creation in Linux. **10**
- b) Explain use of wget and curl commands to get website contents. **10**
- Q.4** a) Write a note on process management in Linux. Explain relevant commands. **10**
- b) Explain grep, cut, tr, sort and uniq commands with two options and their example usage. **10**
- Q.5** a) Explain Apache web server configuration in Linux **10**
- b) Explain Linux File system hierarchy. Explain role of any five directories. **10**
- Q.6** Write short notes on following (any four)
- a) Publishing the Android application **05**
  - b) Android Activity Life-Cycle **05**
  - c) Daemon process **05**
  - d) Role of init signal. **05**
  - e) Logical Volume Manager **05**

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