

**Mumbai University**

**November - 2018**

**B.Sc.IT: SEMESTER – V**

**(QUESTION PAPER)**

**[CBCS – Choice Based]**

**LINUX**

**SYSTEM**

**ADMINISTRATION**

# LINUX SYSTEM ADMINISTRATION

NOVEMBER – 2018 | CBCS – CHOICE BASED

MUMBAI UNIVERSITY  
B.Sc.IT: SEM-V  
CHOICE BASED

**Time:** 2 ½ Hours

**Total Marks:** 75

## **NOTE:**

- (1) All questions (Q.1 to Q.5) are compulsory.
- (2) Figures on the right indicate total marks. All sub-questions carry equal marks.
- (3) Write the question numbers clearly as mentioned in the Question Paper.
- (4) Mixing of sub-questions is not allowed.
- (5) Draw diagrams and give examples whenever necessary.
- (6) Use of calculator or any other electronic gadget is not allowed.

### **Q.1 ATTEMPT ANY THREE QUESTIONS: (15 MARKS)**

- (A) Explain Piping and Redirecting with proper example. Write a command to print first three lines of the file. (5)
- (B) What are the different duties of Linux System Administrator? (5)
- (C) Explain find command with following options: (5)
1. -name
  2. -user
  3. -exec
  4. -type
- (D) What are different commands for Process Management? (5)
- (E) Explain the concept of Hard Link and Symbolic Link. Write a command to create Hard Link and Symbolic Link. (5)
- (F) Write a note on RPM and YUM in Linux. (5)

### **Q.2 ATTEMPT ANY THREE QUESTIONS: (15 MARKS)**

- (A) What are different kinds of Partitions available in Linux? (5)
- (B) What are different File Systems available on RHEL? (5)
- (C) Write a short note on Runlevel and Services in Linux. (5)
- (D) What are different steps to enable SSH Server on RHEL? (5)
- (E) Explain the function of passwd Command with its Options. (5)
- (F) What are the Commands Used for Managing Group Membership? Write a Command for creating Two Groups and Change Current Group Assignment to other Existing User. (5)

### **Q.3 ATTEMPT ANY THREE QUESTIONS: (15 MARKS)**

- (A) What are Firewalls? How it protects the Server? (5)
- (B) What are Tables, Chains, and Rules? List common elements of Rule. (5)
- (C) Write a short note on Certificate Authority. (5)
- (D) What are different steps to Encrypt and Decrypt Files? (5)
- (E) What is NFS? What are advantages and disadvantages of NFS? (5)
- (F) What are steps for Setting Up Samba File Server? (5)

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## Q.4 ATTEMPT ANY THREE QUESTIONS: (15 MARKS)

- (A) Write a short note on DNS and its Hierarchy. (5)
- (B) What are different Parameter used for dhcp.conf Command? (5)
- (C) Discuss MTA and MDA in detail. (5)
- (D) Explain following Parameter for Secure Internet Configuration: (5)
  - 1. Myhostname
  - 2. Mydomain
  - 3. myorigin
  - 4. inet\_interfaces
  - 5. mynetwork
- (E) Write down the steps to configure APACHE for Basic Website Services. (5)
- (F) Write a short note on Virtual Host. (5)

## Q.5 ATTEMPT ANY THREE QUESTIONS: (15 MARKS)

- (A) What are different elements of a Shell Script? (5)
- (B) Write a script that create directory with a name Mumbai, sets \$user and \$group as the owner of Directory and Change Permission Mode to 770. (5)
- (C) Write a short note on High-Availability Cluster Requirement. (5)
- (D) What are the different steps to create Bond Device? (5)
- (E) Write a short note on TFTP server package. (5)
- (F) Write a short note on Kick-Start File. (5)