Reg.No. \_\_\_\_\_\_\_\_\_\_\_\_

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**End Semester Examination – Nov/Dec – 2018**

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| **Code :** | **16CA2015** | **Duration :** | **3hrs** |
| **Sub. Name :** | **SYSTEM ADMINISTRATION** | **Max. marks :** | **100** |

**ANSWER ALL QUESTIONS (5 x 20 = 100 Marks)**

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| **Q. No.** | **Sub Div.** | **Questions** | | | **Course Outcome** | | **Marks** | |
| 1. | a. |  | What is a timestamp? | | | CO1 | | 1 | |
| b. |  | What does a zcat command display? | | | CO1 | | 1 | |
| c. |  | What are the features for which Linux is highly regarded? | | | CO2 | | 2 | |
| d. |  | List down the popular distributors of Linux. | | | CO3 | | 2 | |
| e. |  | Explain the role of a system administrator. | | | CO6 | | 14 | |
| (OR) | | | | | | | | |
| 2. | a. |  | What is an operating system? | | | CO1 | | 1 | |
| b. |  | What is an enterprise server? | | | CO1 | | 1 | |
| c. |  | List out the points to be remembered when creating a file or directory in Linux. | | | CO5 | | 2 | |
| d. |  | Write short note on the components of an operating system. | | | CO2 | | 2 | |
| e. |  | Tabulate the command line commands and their description. | | | CO1 | | 14 | |
|  | | | | | | | | |
| 3. | a. |  | What is data redirection? | | | CO2 | | 1 | |
| b. |  | List down the standard channels used to perform input and output operations. | | | CO2 | | 1 | |
| c. |  | In which circumstances alias is used? | | | CO1 | | 2 | |
| d. |  | List out the shell substitutions. | | | CO4 | | 2 | |
| e. | i. | Write short note on the following.  Tab completion. | | | CO5 | | 7 | |
| ii. | Command-line expansion . | | | CO5 | | 3 | |
|  | iii. | Protections against command-line expansion. | | | CO5 | | 4 | |
| (OR) | | | | | | | | |
| 4. | a. |  | What is a modal editor? | | | CO5 | | 1 | |
| b. |  | How do Linux program communicates? | | | CO2 | | 1 | |
| c. |  | Write short note on the widely used text-mode editors. | | | CO5 | | 2 | |
| d. |  | With help of diagrams show the working of pipe tool. | | | CO2 | | 2 | |
| e. |  | List down the vi commands with description. | | | CO1 | | 14 | |
|  | | | | | | | | |
| 5. | a. |  | List down the boot loaders. | | | CO1 | 1 | |
| b. |  | What is chained boot loaders? | | | CO3 | 1 | |
| c. |  | What happens when a PC- type computer is started? | | | CO2 | 2 | |
| d. |  | State the differences between GRUB and LILO loaders. | | | CO3 | 2 | |
| e. |  | Explain the booting process. | | | CO2 | 14 | |
| (OR) | | | | | | | | |
| 6. | a. |  | What is a kernel buffer? | | | CO2 | 1 | |
| b. |  | Define run level. | | | CO2 | 1 | |
| c. |  | List down the administrative tasks usually performed in single user mode. | | | CO6 | 2 | |
| d. |  | What are the needs to reboot a system? | | | CO3 | 2 | |
| e. | i | Explain the LILO booting process. | | | CO5 | 7 | |
| ii | Explain the various ways of shutting down and rebooting the system. | | | CO6 | 7 | |
|  | | | | | | | | |
| 7. | a. |  | Where Linuxstores the account information? | CO5 | | | 1 | |
| b. |  | What is an IRQ? | CO6 | | | 1 | |
| c. |  | List down few commands used to manage users and groups. | CO3 | | | 2 | |
| d. |  | Write a short note on USB. | CO5 | | | 2 | |
| e. |  | Write a review on computer hardware. | CO6 | | | 14 | |
| (OR) | | | | | | | | |
| 8. | a. |  | What is DMA? | CO1 | | | 1 | |
| b. |  | What is Domain name? | CO1 | | | 1 | |
| c. |  | Write short note on firewire. | CO1 | | | 2 | |
| d. |  | List down the operations that are performed when a new user account is added to the system. | CO3 | | | 2 | |
| e. |  | Explain the Linux installation process. | CO3 | | | 14 | |
| **Compulsory**: | | | | | | | | |
| 9. | a. |  | What is an epoch? | CO1 | | | 1 | |
| b. |  | Define Mirroring. | CO1 | | | 1 | |
| c. |  | Write short note on three levels of backup. | CO1 | | | 2 | |
| d. |  | Compare RAID levels. | CO6 | | | 2 | |
| e. |  | Explain backup process. | CO6 | | | 14 | |