

MCA-21

June – Examination 2020

**Master of Computer Application
(III Year) Examination****Linux System Administration****Paper : MCA-21***Time : 3 Hours]**[Maximum Marks : 80*

Note :- The question paper is divided into three Sections A, B and C. Write answers as per given instructions.

Section-A**8×2=16****(Very Short Answer Type Questions)**

Note :- Answer all questions. As per the nature of the question delimit your answer in one word, one sentence or maximum up to **30** words. Each question carries 2 marks.

1. (i) What is BASH ?
- (ii) What is Kernel ?
- (iii) What is Linux ?

- (iv) What do you mean by Operating System ?
- (v) What is a proxy server ?
- (vi) Write the name of a few commonly used Shells.
- (vii) What do you mean by Open Source ?
- (viii) What does the ping utility do ?

Section-B **4×8=32**

(Short Answer Type Questions)

Note :- Answer any *four* questions. Each answer should not exceed **200** words. Each question carries 8 marks.

- 2. How do you copy, move, and rename files in Linux ?
- 3. What is DHCP ? Explain with an example.
- 4. Write a short note on Vi Editor.
- 5. What are the LILO and GRUB bootloaders of the Linux operating system ? Explain.
- 6. Differentiate between the more and less commands in Linux with suitable example.
- 7. How you can change the permissions and ownerships of a file in Linux ? Explain with an example.

- 8. Explain Linux Boot Process in brief.
- 9. Explain the X window System. How is it different from other Windows ?

Section-C **2×16=32**

(Long Answer Type Questions)

Note :- Answer any *two* questions. You have to delimit your each answer maximum upto **500** words. Each question carries 16 marks.

- 10. What is the Linux file system ? Explain any *five* types of file systems available.
- 11. What are the main components of a Linux Kernel ? Describe in brief the different types of shell.
- 12. What is the use of Shell Scripting ? Discuss various conditional statements found in UNIX with a suitable example.
- 13. What is Apache ? Where is the main configuration file located for Apache ?