

MCA-305
June - Examination 2018
MCA III Year Examination
Linux Administration System
Paper - MCA-305

Time : 3 Hours]

[Max. 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 Questions)

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

- 1) (i) What is BASH?
- (ii) Give the usage of GIMP.
- (iii) List the properties of UNIX?
- (iv) What is GRUB?
- (v) What is used of “which” command in LINUX?
- (vi) How to declare a Shell Variables? Give example.

(vii) Which file is used by Linux distribution to store the encrypted user passwords?

(viii) Differentiate between IP Address and MAC Address.

Section - B

4 × 8 = 32

(Short Answer Questions)

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

- 2) What are the basic features of Linux operating system? Explain in detail.
- 3) Explain the term remote display with reference to X-windows System.
- 4) State any 5 Linux supported file systems and explain ext3 and ext2.
- 5) How you can change the permissions and ownerships of a file in Linux? Explain with an example.
- 6) Explain Linux Boot Process in brief.
- 7) How to create and manage groups, modifying group attributes in LINUX? Explain with example.
- 8) What do you mean by proxy server? What are the advantages and disadvantages of proxy server?
- 9) Explain difference between HTTP and FTP.

Section - C**2 × 16 = 32**

(Long Answer 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 UNIX? Explain Kernel Architecture of UNIX operating system with neat diagram.
- 11) Explain the term file system. Also, compare Windows and Linux file systems.
- 12) What is the use of Shell Scripting? Discuss various conditional statements found in UNIX with suitable example.
- 13) Explain the following LINUX commands with example (any four):
 - (i) pwd
 - (ii) more
 - (iii) less
 - (iv) grep
 - (v) awk
 - (vi) sort
