(ii) Open Source Software *vs.* Closed Source Software

(iii) Unix *vs.* Linux

(c) What is Inode Number ? Explain its full structure and contents including indirection pointers. Write command to find the mode number of Linux files.

5. Attempt any *two* parts of choice from (a), (b) and (c).   (5×2=10 Marks)

(a) Explain the functions of operating system in concern with the

(i) I/O Management

(ii) Secondary Storage Management

(iii) Memory Management

(b) Differentiate the following commands with example :

(i) rm *vs.* rmdir

(ii) cp *vs.* mv

(iii) mkdir *vs.* cat

(iv) cat *vs.* touch

(c) Define default file permission. How they can be changed ? How the permission of a particular file or a directory can be changed ? Explain each mode with example.

H   Roll No. ....

TBC–503/TBI–503

B. C. A./B. SC. (IT)
(FIFTH SEMESTER)
MID SEMESTER EXAMINATION, 2019

INTRODUCTION TO LINUX

Time : 1 : 30 Hours

Maximum Marks : 50

Note : (i) This question paper contains two Sections.

(ii) Both Sections are compulsory.

Section—A

1. Multiple choice question :   (1×5=5 Marks)

(a) Which command is used to display the operating system name ?

(i) os

(ii) unix

(iii) kernel

(iv) uname

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(b) Which option of ls command is used to view file mode number ?

(i) – l

(ii) – o

(iii) – a

(iv) – i

(c) What control character signals the end of the input file ?

(i) ctrl + a

(ii) ctrl + b

(iii) ctrl + c

(iv) ctrl + d

(d) How do you get help about the command "cp" ?

(i) help cp

(ii) man ep

(iii) cd ?

(iv) None of the mentioned

(e) Which command changes a file's group owner ?

(i) cgrp

(ii) chgrp

(iii) change

(iv) group

2. Write short notes on *five* of the following :
                                (3×5=15 Marks)

(a) Free software foundation

(b) Multiprogramming OS

(c) Library Functions

(d) Time sharing OS

(e) Hard Link

(f) dos2unix

Section—B

3. Attempt any *two* parts of choice from (a), (b) and (c).   (5×2=10 Marks)

(a) Define file system. Explain the different types of files in Linux.

(b) Enlighten the historical development of LINUX. Also explain the features of Linux Operating system.

(c) Write short notes on the following :

(i) BASH

(ii) GRUB

(iii) UBUNTU

4. Attempt any *two* parts of choice from (a), (b) and (c).   (5×2=10 Marks)

(a) Explain Meta characters with example. What is escaping and quoting of wild card characters ?

(b) Differentiate between the following :

(i) Multiprogramming *vs.* Multitasking OS