

Write the following information in the first page of Answer Script before starting answer

ODD SEMESTER EXAMINATION: 2020-21

Exam ID Number _____

Course _____ Semester _____

Paper Code _____ Paper Title _____

Type of Exam: _____ (Regular/Back/Improvement)

Important Instruction for students:

1. Student should write objective and descriptive answer on plain white paper.
2. Give page number in each page starting from 1st page.
3. After completion of examination, Scan all pages, convert into a single PDF, rename the file with Class Roll No. (2019MBA15) and upload to the Google classroom as attachment.
4. Exam timing from 10am – 1pm (for morning shift).
5. Question Paper will be uploaded before 10 mins from the schedule time.
6. Additional 20 mins time will be given for scanning and uploading the single PDF file.
7. Student will be marked as ABSENT if failed to upload the PDF answer script due to any reason.

**BACHELOR OF COMPUTER APPLICATION
FIFTH SEMESTER
LINUX & SHELL PROGRAMMING
BCA - 501**

Duration : 3 hrs.

Full Marks : 70

(PART-A: Objective)

Time: 20 min.

Marks: 20

Choose the correct answer from the following:

1X20=20

1. Where do the user arrive after entering exit in Linux system ?
 - a. Login screen
 - b. Internet
 - c. Logout screen
 - d. Login prompt
2. Who can change the password of any user ?
 - a. Everyone
 - b. System Administrator
 - c. Supervisor
 - d. End-user
3. User directories are created under
 - a. Bin directory
 - b. Tmp directory
 - c. Dev directory
 - d. Home directory
4. The user who creates the file is called as the
 - a. Group owner
 - b. System owner
 - c. file owner
 - d. Other users
5. In command mode all keys on the keyboard become what command
 - a. Managing
 - b. Editing
 - c. Inserting
 - d. Formatting
6. ___ represents the root directory.
 - a. _ minus
 - b. / slash
 - c. * asterisks
 - d. + plus
7. The prompt of the root user is
 - a. @
 - b. #
 - c. %
 - d. \$
8. Which of the following is called as the redirection operator for output?
 - a. =
 - b. <<
 - c. <
 - d. >
9. The complete path name of a file or directory is
 - a. root name
 - b. Tree name
 - c. relative path name
 - d. Absolute path name
10. When you are in the command mode, what takes you to the line editing mode?
 - a. cursor
 - b. : colon
 - c. Esc
 - d. Enter

11. Who can change his/her password with the password command?
 - a. Shell
 - b. the worker
 - c. Guest user
 - d. A user
12. Which command copies the contents of the source file after creating the destination file?
 - a. mv
 - b. cat
 - c. cp
 - d. rm
13. System administrator is also known as root user or
 - a. Supervisor
 - b. Multi user
 - c. Super user
 - d. Single user
14. mv command can be used for
 - a. Renaming a file
 - b. Move the file to different directory
 - c. both a and b
 - d. None of the above
15. The ____ command will display the contents of the current directory beginning with the letter 'a'
 - a. ls a*
 - b. ls *a
 - c. la aa*
 - d. None of the above
16. Which command is used to rename the ourgroup file to mygroup ?
 - a. rn ourgroup mygroup
 - b. rn mygroup ourgroup
 - c. mv ourgroup mygroup
 - d. mv mygroup ourgroup
17. Which of the following represents read,write and execute permissions for owner and read and execute for all others.
 - a. 755
 - b. 022
 - c. 733
 - d. 557
18. Which utility would be easily used to replace all lowercase letters in a file with uppercase letters?
 - a. cut
 - b. sed
 - c. tac
 - d. tr
19. Given the command


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$ chmod o-w datafile
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 - a. sets write permission to everyone for datafile
 - b. sets write permission to others for datafile
 - c. clears write permission to everyone for datafile
 - d. clears write permission to others for datafile
20. The permission -rwxr-r- represented in octal expression will be
 - a. 777
 - b. 666
 - c. 744
 - d. 711

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(PART-B : Descriptive)

Time : 2hr 40mins

Marks : 50

[Answer question no.1 & any four (4) from the rest]

1. a. Describe all the internal parts of Linux operating system. 6+4=10
b. How one linux is differing from another linux operating system of different companies?
2. a. Consider that we have to use a long command repeatedly after a regular interval. What method you suggest to save time? 5+5=10
b. What command we use to display a file system with their memory details?
3. How can we open and edit a c-program using vi-editor? What are the commands that we use to edit and save that c-program in vi-editor? 4+6=10
4. a. How do we view and delete a specific partition in Linux? 6+4=10
b. Describe an open source graphical desktop environment for Linux.
5. The computers in the laboratory already have a group called RIST. Now you have to create another group called USTM, under which all the users of USTM are created. How can we make this arrangement with help of Linux command? And also write the command to remove all the users along with the group called RIST. 5+5=10
6. What are the available ways to execute a process in Linux? Take a command as example and explain the whole process. 10
7. a. How system administrator can handle their responsibilities? 5+5=10
b. Write chmod command for the following situation using both symbol and number –
For owner add read and execute command and remove write command, for others and group assign only execute command.
8. a. Write a shell program which will show a message as 'special character' for all the symbols and function keys in the keyboard when pressed as input. 4+6=10
b. If the basic salary is less than Rs. 1500, then HRA=10% of basic salary and DA=90% of basic salary. If the salary is either equal to or above 1500, then HRA=500 and DA=98% of basic salary. If the employee's salary is input through the keyboard, write a program to find gross salary.

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