BACHELOR OF COMPUTER APPLICATIONS
(BCA_NEW)

BCA_NEW ASSIGNMENT SEMESTER-2

ASSIGNMENTS

(January, 2025 & July, 2025 sessions)

FEG-02, MCS-202, MCS-203, MCSL-204, MCS-201, MCSL-205

SCHOOL OF COMPUTER AND INFORMATION SCIENCES , INDIRA GANDHI NATIONAL OPEN UNIVERSITY ,MAIDAN GARHI, NEW DELHI – 110 068

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Important Notes

1. Submit your assignments to the Coordinator of your Study Centre on or before the due date.

2. Assignment submission before due dates is compulsory to become eligible for appearing in corresponding Term End Examinations.

3. To become eligible for appearing in the Term End Practical Examination for the lab courses, it is essential to fulfill the minimum attendance requirements as well as submission of assignments (on or before the due date

Course Code	:	MCSL-204
Course Title	:	WINDOWS and LINUX Lab
Assignment Number	:	BCA_NEW(II)/L-204/Assignment/2025
Maximum Marks	:	100
Weightage	:	30%
Last Dates for Submission	:	30thApril, 2025(For January Session)
		31st October, 2025 (For July session)

The assignment has two parts A and B. Answer all the questions. Each part is for 20 marks. WINDOWS and LINUX lab record carry 40 Marks. Rest 20 marks are for viva voce. You may use illustrations and diagrams to enhance the explanations. Please go through the guidelines regarding assignments given in the Programme Guide for the format of presentation. If any assumptions are made, please state them.

PART-I: Windows 10

Question 1: For the following given tasks of Windows 10, write the step-by-step procedure as well as attach the main screenshots: **(Each 1 mark = 1X20=20 marks)**

a. Create a new user account, set a password, and switch between accounts.
b. Change the desktop wallpaper, screen resolution, and add/remove desktop icons.
c. Create, rename, move, and delete folders and files. Explore different views in File Explorer.
d. Open Task Manager, view Running Processes and End a task.
e. Explore system settings using both the Control Panel and the Settings app.
f. Compress a folder into a ZIP file and extract its contents.
g. Use the search bar in File Explorer to find specific files based on keywords or extensions.
h. Change file or folder permissions and test access using different user accounts.
i. Recover deleted files from the Recycle Bin and permanently delete items.
j. View partition information and format a USB drive.
k. Create a system restore point and simulate restoring the system to a previous point.
l. Capture a specific area of the screen and save it as an image file.
m. Perform a quick scan and review the results.
n. Connect to a wireless network, forget a network, and reconnect.
o. Use the command prompt to view and note the IP address using the ipconfig command.
p. Play a video or audio file and create a playlist.
q. Enable and test features like the Magnifier, Narrator, and On-Screen Keyboard.
r. Use the Display Calibration Wizard to adjust brightness and colors.
s. Check for and install pending updates.
t. Use the Disk Cleanup tool to free up space on the C: drive.

Question 1:   **(1 mark each = 1X10=10 marks)**

Write the LINUX commands for the following:

    a. Set the permissions of exam.txt so that only the owner can read and write, and others have no access.
    b. Display the current permissions of exam.txt using ls -l.
    c. Change the owner of exam.txt to another user using chown (if allowed).
    d. Grant read permission to a specific user using setfacl.
    e. Use the wc command to count the number of lines, words, and characters in exam.txt.
    f. Find all occurrences of a specific word (e.g., "Linux") in exam.txt using grep.
    g. Sort the lines of a file named data.txt alphabetically using sort.
    h. Remove duplicate lines from data.txt using uniq.
    i. Redirect the output of the ls command into a file named output.txt.
    j. Check the connectivity to a specific website (e.g., google.com) using ping.

Question 2:   **(2 ½ X 4 = 10 Marks)**

    a. Write a script to display numbers from 1 to 10 using a *for loop*.
    b. Write a script to compress a directory (e.g., ~/exam) into a .tar.gz file.
    c. Create a script that takes user input from the menu displayed and performs the arithmetic operation like a simple calculator.
    d. Write a script to back up a directory into a compressed archive.