**INFORMATION TECHNOLGY DEPARTMENT**

**Short Test**

**Spring, AY 2024-2025**

**CSNW3203-ITNT403-System Administration**

**Date:** Thu, May 15 2025 **Time:** 12:00 PM – 2:00 PM

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| Max Marks | 10 | Time Allocation | 90 Minutes |

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| Student ID |  | Student Name |  |
| Section | 1 | Level | Advanced Diploma/BTech |

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| **Instructions to the Students** |
| 1. ***Take screenshots of every task, store it in a word file, and then upload your word file into Moodle***. 2. Exam paper consists of **3** pages including cover page. |

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| **Section** | **Allotted Marks** | **Obtained Marks** |
| TASK A | **2** |  |
| TASK B | **2** |  |
| TASK C | **2** |  |
| TASK D | **2** |  |
| Total Marks | **10** |  |

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| **TASKS** | **Total Marks** |
| **Writing syntax and usage of tasks/Writing program from sub division** | **40 %** |
| **Executing Commands/Executing program** | **40 %** |
| **Result** | **20 %** |

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| **TASK** | | **Marks** |
| A | * **Create the following directories: FINAL, UTAS, T1, and T2 in your home directory.** * **Add the following text: 'Your name, Your ID, Final Practical Exam – Linux Course' into the final.txt file located in the FINAL directory.** * **Write a command to display the current month of the year 2025 and save the output as login.txt in your FINAL directory.**   ***Include screenshots of tasks:*** | **2** |
| **Write a shell script named “final.sh” in your FINAL directory to perform the following tasks:**   * **Display only the to view file permission of “final.txt”.** * **Merge the files final.txt and login.txt into a new file named merge.txt.** * **Display only the user (owner) permissions of the file merge.t** * **Display your name and your ID.**   ***Include screenshots of tasks:*** |
| B | **Write a shell script named user.sh in your FINAL directory to perform the following tasks:**  **Tasks:**   * **Create a user named Admin and create a group named Staff.** * **Assign the user ID 2025 to a user named Admin.** * **Assign the group ID 5050 to the group Staff.** * **Write the appropriate command to add the user Admin to the group Staff.** * **Write the appropriate command to display only the usernames of all currently created users.** | **2** |
| C | **In the FINAL directory, assign a password as 12345678 to the user Admin. The administrator wants to verify and configure the password expiration policy for the user Admin. Write the appropriate commands for the following tasks:"**   * **Write a command to set a maximum of 45 days between password changes for the user Admin.** * **Write a command to start sending warnings to the user Admin 15 days before the password expires.** * **Write a command to set a minimum of 5 days between password changes for the user Admin.** * **Write a command to display the current password policy for the user Admin.**   ***Include screenshots of tasks:*** | **2** |
| D | **In the FINAL directory, write a shell script named my.sh in your home directory to perform operations using environment variables with a case statement. The script should provide the following options:"**   1. **Display the contents of the UTAS directory** 2. **Display the contents of the file merge.txt** 3. **Exit**   ***Include screenshots of tasks:*** | **2** |
| E | **Create a MyBackup directory inside your FINAL directory.**  **Create a compressed archive containing only the shell script files in the FINAL directory, and**  **name it mybackup.tar.gz, using the tar command.**  **Copy the mybackup.tar.gz file from the FINAL directory into the MyBackup directory.**  **Decompress the file inside the MyBackup directory.**  ***Include screenshots of tasks:*** | **2** |

***Upload your word file into Moodle***