SEMESTER EXAMINATION-2021
CLASS – CSE/VTH SEM, SUBJECT - LINUX AND SHELL PROGRAMMING
PAPER CODE: BCE-O535, PAPER TITLE - LINUX AND SHELL PROGRAMMING

Time: 3 Hour   **Max. Marks: 70**
                                                                                      Min. Pass: 40%

Note: Question Paper is divided into two sections: **A and B.** Attempt both the sections as per given instructions.

SECTION-A (SHORT ANSWER TYPE QUESTIONS)

Instructions: Answer any FIVE questions in about 150 words   (5 X 6 = 30 Marks)
each. Each question carries six marks.

Question-1: Differentiate between Linux and Windows operating system.
Question-2: What do you understand by zombie and orphan processes? Explain how they can be managed?
Question-3: Write commands to create file, directory, list files and directories, concatenate two files, remove files, remove directories.
Question-4: Discuss command for changing file permissions using suitable example.
Question-5: Explain TOP command in brief also name information it provides to user.
Question-6: What is shell? List various available common shells.
Question-7: Discuss the functions of passwd, pwd, cat & rmdir command in brief.
Question-8: Discuss about pipes and redirection using suitable example.
Question-9: Explain file permissions in Linux and also write a command by which you can know about different permissions on file.
Question-10: Explain parent and child process with example.

SECTION-B (LONG ANSWER TYPE QUESTIONS)

Instructions: Answer any FOUR questions in detail. Each   (4 X 10 = 40 Marks)
question carries 10 marks.

Question-11: Discuss the architecture of Linux in detail and also explain features of Linux in brief.
Question-12: Explain concept of RAID and different RAID levels in Linux. Also discuss benefits of using RAID in detail.
Question-13: Crate two group G1 and G2. Create a new user UG1 and XG1 belonging to group G1 and user UG2 belonging to group G2. Create a file by user UG1 and delete that file by user XG1.Also make sure that the file cannot be deleted by UG2 but UG2 can read the file.
Question-14: Explain red hat package manager (RPM) and five basic modes for RPM command in detail. Also discuss about Yellowdog Updater

Modified (YUM) in brief.

Question-15: Who is super user in Linux? Explain various user management commands.

Question-16: Explain Linux file system structure in detail and also discuss Linux file system features in short.

Question-17: Discuss various process related commands in Linux using suitable examples. How we can manage multiple processes?

Question-18: What do you understand by user management in Linux? Create two users CSE1 and CSE2. Create a file by login as user CSE1 and delete that file by login as user CSE2.

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