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**MANIPAL INSTITUTE OF TECHNOLOGY**

**MANIPAL**

(A constituent unit of MAHE, Manipal)

**V SEMESTER B.TECH. (COMPUTER SCIENCE AND ENGINEERING)**

**MAKEUP END SEMESTER EXAMINATIONS, MAR 2022**

**SUBJECT: LINUX PROGRAMMING [OPEN ELECTIVE-2] [CSE 4303]**

**REVISED CREDIT SYSTEM**

**(01/03/2022)**

Time: 75 Minutes

MAX. MARKS: 20

**Instructions to Candidates:**

- ❖ Answer **ALL** the questions.
- ❖ Missing data may be suitably assumed.

- 1A.** Using System administration commands do the following:
- (i) Add a local user account to your Linux system that has a username *jbaxter* and a full name *John Baxter*, that uses */bin/sh* as its default shell. Next use the *grep* command to check the new user account. Then set the password for *jbaxter* to: *My1N1te0ut!*
  - (ii) To create a group account named *testing* that uses group ID 315, next check the new group using *grep*
- 5M**
- 1B.** Write the *grep* command to search the pattern from *employee1* and *employee2*:
- (a) To display the lines containing pattern “sales” in both the files
  - (b) To display the lines having pattern “marketing” by ignoring the case in the file *employee2*.
  - (c) To display the lines from *employee2* starting with “10”
- 3M**
- 1C.** Write shell commands in the order to do the following:  
Create a directory in your home directory called *NewProject*. Under the *NewProject* directory, create 5 empty files that are named *house1*, *house2*, *house3*, *house4* and *house5*. Assuming there are lots of other files in that directory, come up with a single argument to *ls* that would list just those five files. Give read and execute permissions to all files.
- 2M**
- 2A.** List and explain with examples Numerical Comparison Operators and String tests used by test statement.
- 4M**
- 2B.** Explain following terminologies with respect to Git:
- (i) repository (ii) working Tree (iii) Staging Area/index.
- 3M**
- 2C.** What are the key features of the Subversion Version Control System? Explain each briefly.
- 3M**

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