

## III B. Tech II Semester Supplementary Examinations, April – 2021

**UNIX AND SHELL PROGRAMMING**

(Electrical and Electronics Engineering)

Time: 3 hours

Max. Marks: 70

- Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B**)  
 2. Answer **ALL** the question in **Part-A**  
 3. Answer any **FOUR** Questions from **Part-B**

**PART –A****(14 Marks)**

1. a) Write the syntax of who command. [2M]
- b) What is the purpose of echo command? [2M]
- c) Why do we need redirection in Unix? [2M]
- d) List out two special files in Korn shell. [3M]
- e) How you can debug scripts in Unix? [3M]
- f) What is the purpose of a kill command? [2M]

**PART –B****(56 Marks)**

2. a) Define Unix? Write in brief about Unix kernel architecture. [7M]
- b) Write about the following Unix commands: [7M]
  - i) ssty      ii) cp      iii) tar.
3. a) Describe in brief about Unix file permissions for security. [7M]
- b) Explain about the following commands: [7M]
  - i) ps      ii) rlogin      iii) awk.
4. a) Write a program that uses grep for searching a file for a pattern and to display the search patterns on the standard output. [7M]
- b) Define Environment variable? List out and explain the environment variables which control the user environment in Korn Shell. [7M]
5. a) Explain in brief about the different types of operators used in AWK shell script. [7M]
- b) Write an awk program to print only the odd numbered lines of a file. [7M]
6. a) Write the syntax of sleep, eval and exec commands. [7M]
- b) Describe in brief about the different types of Loop statements in a shell. [7M]
7. a) Define a Process. How you can create processes in Unix? [7M]
- b) Differentiate background process and foreground process with suitable examples. [7M]

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