Reg. No.	445		

MANIPAL ACADEMY OF HIGHER EDUCATION SCHOOL OF INFORMATION SCIENCES

FIRST SEMESTER MASTER OF ENGINEERING – **ME** (EMBEDDED SYSTEMS)
DEGREE EXAMINATION – APRIL 2018

SUBJECT: ESD 615.2 (ELECTIVE 1) –LINUX & SCRIPTING LANGUAGES

Thursday, April 19, 2018

Time: 10.00 - 13.00 Hrs.

Max. Marks: 100

★ Answer ALL the questions

- 1. A. Explain *touch* and *help* command with examples
 - B. Write short notes on exit status and trap with relevant examples

(2x5=10 Marks)

- 2. Write one line script and explain the resultant scripts
 - A. List all files whose 1st letter is upper case character
 - B. List all the file name with single character
 - C. Give only write permission to the owner or user of all the files starts with "a"
 - D. Delete all the files with extension .c and .cpp in the current working directory interactively
 - E. Delete the all the empty directory

(5x2=10 Marks)

- 3. Solve the following task using grep command
 - A. Print all the lines containing the pattern "script" in the file "file1"
 - B. Count total number of lines in the file "file1" containing "bash" or "Bash"
 - C. Print the line number and file names which containing "bash "in the current the current directory
 - D. Print all the lines not containing only "bash" in the file "file1"
 - E. Print all the lines ends with either . [dot] or question mark [?] in the "file1"

(5x2=10 Marks)

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4. Write the alternative commands of the following using sed and explain A. tail -1 filename	
B. head -1 filename	
C. tr "ABCDE" "abcde" < filename	
D. cat filename	
E. grep '^new' filename	
8P	(5x2=10 Marks)
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Using dialog utility create a menu which need to have options i) Open a file;	
ii) Remove a file;	
iii) Copy a file;	
iv) Move a file;	
	(10 Marks)
6. Write and explain sed scripts to do the following	
A. Print all the lines which start with lower case.	
B. Delete first 10 lines in the file	
C. Delete all the capital "D" in the file.	
D. Replace all upper case characters in to lower case in the fileE. Delete all the blank lines in the file.	
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7. Explain the importance of Getopts command with an example	
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9. Write a Perl program

- A. To get person name and corresponding phone from the user and store in a hash.
- B. Get the name from the user and check whether the name is already exist or not.
- C. Display the name sort by name.
- D. Count total numbers of contacts are there in the hash.

8. Explain any five math built-in functions in awk with an example

(4x2.5=10 Marks)

(5x2=10 Marks)

10. Write short notes on make file. Elaborate on the necessity of make file with an example.
(10 Marks)

ESD 615.2 (E)

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