



M.Tech II Semester Supplementary Examinations January/February 2019

LINUX PROGRAMMING & OOPS

(Digital Systems & Computer Electronics)

(For students admitted in 2017 only)

Time: 3 hours

Max. Marks: 60

Answer all the questions

- 1 Write briefly on the following commands with examples:
(i) Sed. (ii) Chmod. (iii) DF. (iv) Comm. (v) Cp. (vi) Sort.

OR

- 2 Discuss the following in detail:
(a) Egrep with example.
(b) File access permissions.
(c) Removing and renaming files.

- 3 (a) Explain various process utilities in Linux with clean syntax, few options and examples.
(b) Discuss filters in Linux.

OR

- 4 Write short notes on the following:
(a) File handling utilities.
(b) Associative arrays.

- 5 Write short notes on the following:
(a) Shell control structures.
(b) Shell variables.
(c) Functions in shell programming.

OR

- 6 (a) Write a shell script to find the factorial of a number.
(b) Write a shell script to find whether the given number is odd or even.

- 7 Discuss in detail on polymorphism, method over riding and abstract classes with necessary program.

OR

- 8 (a) Distinguish between: (i) Inheritance and containership. (ii) Encapsulation and abstraction.
(b) List out the advantages of inheritance.
(c) Discuss about benefits of abstract class.

- 9 Explain various types of constructors that are available in C++ with suitable examples.

OR

- 10 (a) Write a C++ program to overload + operator for concatenating two strings.
(b) Explain any two string functions in C with examples.

