



M.Tech I Semester Regular & Supplementary Examinations January/February 2019

LINUX PROGRAMMING & OOPS

(Embedded Systems)

(For students admitted in 2017 & 2018 only)

Time: 3 hours

Max. Marks: 60

Answer all the questions

- 1 (a) Write short notes on Linux "Users and Groups".
(b) Explain the following command with syntax, options and examples:
(i) Grep.
(ii) Head.
(iii) Ps.

OR

- 2 (a) Explain demand paging with respect to memory management in linux.
(b) Write a short note on "permission for files and users".
- 3 (a) Explain 'awk' with suitable examples.
(b) Explain any three mathematical functions in linux.

OR

- 4 (a) Write a short note on linux string functions.
(b) Discuss with examples various process utilities commands and their options.
- 5 (a) Differentiate between different types of shell.
(b) Write a script to accept two numbers from the keyboard and print their sum.

OR

- 6 (a) What is the syntax for the "for loop", "while loop", and until loop in shell scripting?
(b) How to test files in a shell script?

- 7 (a) Discuss briefly the characteristics of object oriented languages.
(b) Explain how an inline function differs from a pre-processor macro. Explain significant advantages of inline function.

OR

- 8 What is meant by function prototyping? Explain the importance of call by value. Write short notes on enumerations in C++.

- 9 (a) Explain the terms "object" and "class" with examples.
(b) Differentiate between static data member and static member functions.

OR

- 10 Explain in detail about standard C++ string class and its applications.
