24361

B. Tech. (CSE) 6th Semester
Examination – May, 2015

SYSTEM PROGRAMMING AND SYSTEM ADMINISTRATION

Paper : IT-303-F

Time : Three Hours]　　　　　　[Maximum Marks : 100

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note : Question No. 1 is *compulsory* having Objective Type Question.

1. (i) Define the term system administrator. 2 × 10 = 20
   (ii) What is interactive shell script ?
   (iii) Write Unix command to search a pattern in a given file.
   (iv) Explain assembler.
   (v) Define the absolute loader.
   (vi) Explain features of macro.
   (vii) What is i-node ?
   (viii) How to change password in Unix ?
   (ix) Define reallocation loader.
   (x) Define the role of system programmer.

SECTION – A

2. Explain various types of loaders with their advantages and disadvantages. 20

3. (a) Explain the compilation process. 10

   (b) Write a short note on : 5 × 2 = 10

   (i) Assembler

   (ii) Linker　http://www.HaryanaPapers.com

SECTION – B

4. (a) Defining macros. Explain Expansion of conditional macro. 10

   (b) Explain the directory structure of Unix Operating System in detail. 10

5. (a) Explain Memory management in Unix O.S. 10

   (b) What is demand paging ? Explain in detail. 10

SECTION – C

6. (a) Explain different operation performed on files. 10

   (b) Write down Unix Commands to : 10

   (i) Splitting the files

   (ii) Rearrange files

   (iii) Translating character

   (iv) Sorting the files

7. (a) Explain filter and pipeline in Unix. 10

   (b) Explain vi-Editor. 10

SECTION – D

8. (a) Explain various Shell programming constructs by giving suitable example. 10

   (b) Explain Linux operating system. 10

9. (a) What do you understand by system and network administrator ? Write down the goal of network administrator. 10

   (b) Explain the booting process of Unix. 10