Roll No. ....

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.

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 : $5 \times 2 = 10$

   (i) Assembler

   (ii) Linker

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**

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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

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