Roll No. ....

24361

B. Tech. 6th Semester (CS & IT)

Examination – May, 2019

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 : Attempt any *five* questions in all, selecting *one* question from each Section. Question Number 1 is *compulsory.* All questions carry equal marks.

1. Write the short note on the following :

   (a) Differentiate between assembler and Loader

   (b) Subroutine linkage

   (c) Macro calls

   (d) Role and function of system manager

   (e) Filters and pipelines

   (f) Software tools

   (g) Debug monitors

   (h) Macro processor

   (i) Shell scripts

   (j) UNIX editor vi

SECTION – A

2. Explain Single and Two Phase Assembler.

3. Write down Full Compilation Process in detail.

SECTION – B

4. What is Macro Calls ? Explain conditional macro expansion. https://www.haryanapapers.com

5. What is Operating System ? Explain Demand Paging and Directory Structure.

SECTION – C

6. Write down the file permission in UNIX. How would you change the permission of a file ? Explain in detail.

7. Explain File and Directory related command of UNIX in detail. Also give a brief on VI editor.

SECTION – D

8. Explain Shell Scripting. Give different types of Shell in UNIX. What are Wild Cards ? Also focus on file systems and special files.

9. Write the short notes on the following :

(a) Definition of system administration

(b) Backups and restoration

(c) Shell Variables

(d) Sorting and splitting files