B.Tech. DEGREE EXAMINATION, MAY - 2015

(Examination at the end of Third Year)

Computer Science & IT

Paper - II: Systems Software

Time: 3 Hours Maximum Marks: 75

Answer question No.1 compulsory

(15)

Answer any four questions from Part - B

 $(4 \times 15 = 60)$

PART - A

- 1) Explain the following:
 - a) Assemblers.
 - b) Macro Instructions.
 - c) Relocating Loaders.
 - d) Buffer Headers.
 - e) Driver Interfaces.

Part – B

2) Mention various Data formats for the system 360/370. Explain each one with examples.

OR

- 3) Explain the implementation of the Macro processor within an assembler (pass 1).
- 4) What are the various types of Loaders? Discuss about the Design of an Absolute loader.

OR

- 5) Describe an algorithm used in the design of a direct linking loader for an 1 BM system / 360 type computer.
- 6) Explain the scenarios for Retrieval of a buffer from buffer cache.

OR

- 7) a) Explain in detail about UNIX Kernel.
 - b) Write a short note on structure of a Regular file.

8) Explain about the Disk Drivers in I/O subsystem.

OR

9) What is a system call? Discuss about various system calls used for file systems.

