(DCS / DIT 312)

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 compulsor	<u>v</u> (15)

<u>Answer any four questions from Part - B</u> $(4 \times 15 = 60)$

<u> PART – A</u>

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

<u> Part – B</u>

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.

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