 LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

**M.Sc.** DEGREE EXAMINATION - **COMPUTER SC.**

SECOND SEMESTER – APRIL 2011

# CS 2809 - SYSTEM SOFTWARE AND OPERATING SYSTEM

Date : 02-04-2011 Dept. No. Max. : 100 Marks

Time : 1:00 - 4:00

# PART – A

# Answer all Questions 10 X 2 = 20

1. What is assembler?
2. What are macros?
3. What is the difference between Compiler and Interpretter
4. What are linkers?
5. Define Operating System.
6. What is Deadlock?
7. What is race Condition?
8. What is Virtual Memory?
9. Write any four input devices
10. What are the file types in UNIX?

# PART - B

# Answer all Questions 5 X 8 = 40

1. a) Explain the pass structure of an Assembler.

(or)

b) Explain Macro definition and call

1. a) Explain Code optimization

(or)

b) Explain debug monitors

1. a) Explain the evolution of Operating System.

(or)

b) Explain deadlock prevention and recovery.

1. a) Explain Semaphores in Operating System

(or)

b) Explain Noncontiguous allocation and its advantages.

1. a) Explain the directory Structure

(or)

b) Explain file system reliability.

# PART – C

# Answer any two Questions 2 X 20 = 40

1. i) Explain Two pass assembler with block diagram

ii) Explain the compilation of control structures

1. i) Explain Job Scheduling Algorithms

ii) Explain Inter process communication

1. i) Explain Advanced I/O programming

ii) Explain the file system of Unix

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