

UNIVERSITY OF KERALA
SCHOOL OF DISTANCE EDUCATION
IIIrd SEMESTER ASSIGNMENT TOPICS (BSc CS)

I. COMPUTER ORGANIZATION & ARCHITECTURE (CS 1341)

1. Write a note on:

- a) Programmed I/O
- b) Interrupt driven I/O
- c) DMA controlled I/O.

2. Explain various addressing modes and instruction formats of 8085 microprocessor?

3. Multiply 101101 and 011110 using Booth's algorithm.

4. What is micro instruction? How is it differs from program sequence.

5. Explain the following

- a) Multiple Module Memories.
- b) Memory Inter leaving
- c) Multilevel Organization of Cache memory

II. SOFTWARE ENGINEERING (CS1342)

1. Comparison of different Life Cycle Models.

2. First-level factoring, factoring input, output and transform branches.

3. Design walkthroughs, critical design review, consistency checkers.

4. Differentiate Control flow based and Data-flow based testing.

5. Differentiate black-box and white-box testing.

III. OPERATING SYSTEMS(CS 1343)

1. Explain the features of a distributed system. What are the advantages?

2. Explain the paging techniques in memory management.

- 3.Explain classical synchronization problems in inter process communication.
- 4.Explain the file system structure and its implementation.
- 5.Discuss swapping technique with diagram.

IV. INTERNET PROGRAMMING (CS 1344)

- 1.Explain the architecture of JAVA Servlets.
2. Create an Application form using HTML.
3. Write a note on Macromedia flash, Web server and Web databases.
4. Write a note on JDBC, PHP, and .Net Technology and C #.
5. Explain the web administration and maintenance.
6. Write five application program code in JavaScript.

V. MICROPROCESSOR & PERIPHERALS (CS1345)

1. Difference between real mode and protected mode?
2. Explain assembler directives with example?
3. Explain COM and EXE files.
4. Explain BIOS and DOS interrupts
5. Difference between maximum mode and minimum mode signals?