

2005 - MADRAS UNIVERSITY
M.C.A I-YEAR
SYSTEM SOFTWARE

TIMES-3 HOUR
MARKS-75

PART A - (5 x 5 = 25 marks) Answer ALL questions. All questions carry equal marks.

1. (a) Explain the components of system software.

Or

(b) Explain the model of computer system.

2. (a) Explain the elements and advantages of assembly language programming.

Or

(b) Explain macros.

3. (a) Explain the storage allocation related to compiler.

Or

(b) Explain compiler writing tools.

4. (a) Explain loaders.

Or

(b) Explain dynamic linking.

5. (a) Explain interpreter and compare it with compiler.

Or

(b) Explain program generators.

PART B - (5 x 10 = 50 marks) Answer any FIVE questions All questions carry equal marks.

6. What are system programs? Explain the evolution of system software.

7. Explain the software processors and I/O channels.

8. Design a two-pass assembler.

9. Explain the different phases of a compiler with examples,

10. Explain the grammars for programming languages and software processors of or interactive environment.

11. Explain a linkage editor for a IBM PC.

12. Explain the design of text editor and discuss about the types of text editors, program overlays, debug monitors and programming environments.