Exam. Code : 206703

Subject Code: 4691

M.Sc. Computer Science 3rd Semester SYSTEM SOFTWARE

Paper—MCS-302

Time Allowed—Three Hours] [Maximum Marks—100

Note:—Attempt FIVE questions, selecting at least ONE question from each part. The fifth question may be attempted from any part.

PART—A

- 1. (a) Discuss the evolution of system software. 10
 - (b) Design a comparison report between interpreters, compilers and assemblers.
- 2. What is an assembler? Discuss various phases of one pass assembler with the help of a block diagram. 20

PART—B

- 3. (a) What is a Macro and its expansion? Discuss with suitable examples.
 - (b) Distinguish between conditional macro expansion and recursive macro expansion with the help of a suitable code fragments.
- 4. (a) What is recursive micro expansion? Explain macro expansion by taking suitable examples. 10
 - (b) Write a note on conditional MACRO. 10

PART—C

5.	Explain	the various	phases	of	compiler	with	help	of
	a block	diagram.						20

- Write short notes on the following terms:
 - (i) P code compiler
 - (ii) Cross compiler
- (iii) Incremental compiler
 - (iv) Parsing.

5×4=20

PART—D

7. (a) Explain the salient features 'Loaders' in detail.

- (b) Explain 'Relocation' and 'Program Linking' in detail. 10
- Write short notes on the following terms: 8.
 - (a) Text Editors
 - (b) DBMS.

 $10 \times 2 = 20$