http://www.gnduonline.com

Exam. Code : 206703

Subject Code: 4691

# M.Sc. Computer Science 3<sup>rd</sup> 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. 10
- 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

- http://www.gnduonline.com
  Explain the various phases of compiler with help of a block diagram.
- 6. Write short notes on the following terms:
  - (i) P code compiler
  - (ii) Cross compiler
  - (iii) Incremental compiler
  - (iv) Parsing.

 $5 \times 4 = 20$ 

#### PART-D

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

 $10 \times 2 = 20$