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(20221) Roll No. ..  
B.Sc.(Com-Sc.)-V Sem.

**NP-3609**  
**B.Sc. (Computer Science)**  
**Examination, Dec.-2020**  
**System Software**  
**(BCS-502)**

*Time : Three Hours / [Maximum Marks : 75*

**Note :** Attempt questions from **all** sections  
as per instructions.

**Section - A**

**(Very Short Answer Questions)**

**Note :** Attempt **all** questions. 3×5=15

- 1. What features are necessary in a high level language. 3
- 2. What is an absolute loader. 3
- 3. What is macro processor. 3
- 4. What is Debug monitors. 3

**P.T.O.**

- 5. Differentiate between Assembler and Interpreter. 3

**Section - B**

**(Short Answer Questions)**

**Note :** Attempt any **two** questions. 7½×2=15

- 1. Write a note on macro expansion with its algorithm. 7½
- 2. Explain the facilities available in MS-DOS linker for program linking. 7½
- 3. Write short notes on the following:
  - (a) Memory allocation 2½
  - (b) Code generation 2½
  - (c) LEX 2½

**Section - C**

**(Detailed Answer Questions)**

**Note :** Attempt any **three** questions. 15×3=45

- 1. Define Compiler. Explain all its phases with neat diagram. 15

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2. What is multiprocessing? Draw basic organization diagram of a typical multiprocessing system. 15
3. Define MACRO. Briefly explain the various data structures used in the design of MACRO PROCESSOR. 15
4. Describe the following:
  - (a) Conditional macro expansion 7
  - (b) Recursive macro expansion 8
5. Discuss about design options for a compiler. 15

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