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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. $3 \times 5 = 15$

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. $7\frac{1}{2} \times 2 = 15$

1. Write a note on macro expansion with its algorithm. $7\frac{1}{2}$
2. Explain the facilities available in MS-DOS linker for program linking. $7\frac{1}{2}$
3. Write short notes on the following:
 - (a) Memory allocation $2\frac{1}{2}$
 - (b) Code generation $2\frac{1}{2}$
 - (c) LEX $2\frac{1}{2}$

Section - C

(Detailed Answer Questions)

Note : Attempt any **three** questions. $15 \times 3 = 45$

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