NP-3609 (CV-III) B.Sc. (Computer Science) Examination, Dec. 2021

(System Software)
(BCS-502)

Time: 1½ Hours J JMv simum Marks: 75

Note: Attempt all the sections as per instructions.

Section-A

Note: Attempt any two questions. Each question carries **7.5** marks. 2×7.5=15

- Describe, fields of symbol table.
- Differentiate between Assembler and Interpreter.
- What is a macro?

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- Differentiate between a macro and a subroutine.
- 5. What is the need of optimization in compiler design?

Section-B

Note: Attempt any **one** question. Each question carries **15** marks. 1×15=15

- Write a note on macro expansion with its algorithm.
- 2. What do you mean by tokens in compiler design? How can they be recognized?
- Explain different aspects of compilation in brief.

Section-C

Note: Attempt any **two** questions. Each question carries **22.5** marks.

 $2 \times 22.5 = 45$

Explain linking loader in detail.

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- Define control section. How does control section differ from the program blocks?
 Explain with an example.
- Write short notes on the following:
 - (a) Memory allocation
 - (b) Code generation
 - (c) LEX.
- Why we used compiler? Define the various phases of compiler along its neat diagram.
- Explain the different machine independent loader features in detail.