

V (Printed Pages 3)
(21225) Roll No.
B.Sc. (Com. Sc.)-V Sem.

NP-3609
B.Sc. (Computer Science)
Examination, Dec.-2025
System Software
(BCS-502)

Time : Three Hours] [Maximum Marks : 75

Note : Attempt **all** Sections as per instructions.

Section - A

Note : Attempt all the **five** questions. Each question carries three marks. $3 \times 5 = 15$

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

P.T.O.

4. What is time-sharing? What is a time slice?
5. What is MS-DOS Link?

Section-B

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

1. Write a note on macro expansion with its algorithm.
2. Write the short notes on the following:
 - (a) Memory allocation $2\frac{1}{2}$
 - (b) Code generation $2\frac{1}{2}$
 - (c) LEX $2\frac{1}{2}$
3. Explain different aspects of compilation in brief.

Section-C

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

1. Explain linking loader in detail.

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2. Describe machine independent macro processor features?
3. What is a process control block? Why it is needed? What does it typically contain?
4. Discuss about design option for a compiler.
5. What is multiprocessing? Draw basic organization diagram of a typical multiprocessing system.