

A (Printed Pages 3)
(21222) Roll No.
B.Sc. (Com. Sc.)-V Sem.

NP-3609

B.Sc. (Computer Science)

Examination, Dec.-2022

(System Software)

(BCS-502)

Time : Three Hours] [Maximum Marks : 75

Note : Attempt all Sections as per instructions.

Section - A

(Very Short Answer Questions)

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

1. What is System Software? Give examples.
2. What do you mean by load & go assembler.
3. Compare line editor and screen editor.

P.T.O.

4. Mention the most fundamental function of a loader.
5. What is MS-DOS Link?

Section-B

(Short Answer Questions)

Note : Attempt any **two** questions.

$7.5 \times 2 = 15$

1. What are the different storage class in C. 7.5
2. Write short notes on the following:
 - (a) Multiprogramming 2.5
 - (b) Time-Sharing System 2.5
 - (c) Debug monitors 2.5
3. Explain about the dynamic linking. 7.5

Section-C

(Detailed Answer Questions)

Note : Attempt any **three** questions.

$15 \times 3 = 45$

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1. Explain the data structures involved in macroprocessor algorithms.
2. Define Multiprogramming. Explain how multiprogramming ensures effective utilization of main memory & CPU.
3. Explain the instruction formats and addressing modes of SIC/XE machine.
4. (a) Explain how the program blocks are assembled 9
(b) Discuss the functions of two pass assemblers. 6
5. Describe machine-independent macro processor features.

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