

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.