

Roll No. ....

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**BCA (Sem. - 5<sup>th</sup>)**

**SYSTEM SOFTWARE**

**SUBJECT CODE : BC - 502 (N2)**

**Paper ID : [B0220]**

[Note : Please fill subject code and paper ID on OMR]

**Time : 03 Hours**

**Maximum Marks : 60**

**Instruction to Candidates:**

- 1) Section - A is **Compulsory**.
- 2) Attempt any **Four** questions from Section - B.

**Section - A**

**Q1)**

**(10 × 2 = 20)**

- a) Which phases use machine independent databases?
- b) Define the user's address space.
- c) What is spooling?
- d) What is compiler?
- e) What is the unary postfix operator?
- f) Define symbol tables.
- g) What is a multipass assembler?
- h) What is the need for relocation?
- i) What are the differences between macros and subroutines?
- j) What are nested macros?

**Section - B**

**(4 × 10 = 40)**

**Q2)** What features of assembly language required us to build a two-pass assembler?

**Q3)** Describe the input and output of the macro processor. How dependent is it upon the assembler source code format?

- Q4)** Describe the functions of each of the RLD, ESD, TXT, and END cards.
- Q5)** What are the similarities and differences between controlled and based storage.
- Q6)** What are the advantages and disadvantages to performing the assembly of the compiled program in the compiler rather than using the standard system assembler?
- Q7)** What is paging, memory management technique? How it differ from segmentation?

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