

Roll No.

Total No. of Questions : 07]

[Total No. of Pages : 02

BCA (Sem. - 5th)
SYSTEM SOFTWARE
SUBJECT CODE : BC-502
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

(10 × 2 = 20)

Q1)

- a) What do you understand by virtual devices?
- b) What are the various loader schemes available? Define them.
- c) Describe the functions of code generation phase of compilers.
- d) Define macros.
- e) What is the importance of text editor?
- f) Differentiate between binding and linking.
- g) What is the role of debug monitor?
- h) Explain the important components of an operating system.
- i) What are the advantages of system software?
- j) Describe overlay.

Section - B

(4 × 10 = 40)

- Q2)** Describe the functions and structure of DBMS and EDITOR.
- Q3)** Give the algorithm used by the linker for merging definition table and use table of a module into linkage symbol table.
- Q4)** What are the different schemes available for intermediate code generation and optimization in compilers? Explain with examples.
- Q5)** Explain the following:
- (a) Macro calls within Macro.
 - (b) Macro Instruction arguments.
- Q6)** What are the different addressing modes generally used in assembly language? Explain with examples.
- Q7)** Discuss the design of a two pass assembler with an example.

