Roll No. ....

Total No. of Pages : 2

Total No. of Questions : 07

## BCA (Sem.-5) SYSTEM SOFTWARE Subject Code : BC-502 Paper ID : [B0220]

Time : 3 Hrs.

Max. Marks : 60

## **INSTRUCTION TO CANDIDATES :**

- 1. SECTION-A is COMPULSORY.
- 2. Attempt any FOUR questions from SECTION-B.

SECTION-A  $(10 \times 2 = 20 \text{ Marks})$ 

l. Write short notes on :

sembly language.

- (b) Illustrate macro expansion with suitable example.
- (c) What is compiler? How it is different from interpreter?
- (d) Explain how one pass assembler is different from two pass assembler.
- (e) List advantages and disadvantages of two pass assembler.
- (f) What is program linking?
- (g) List advantages of dynamic linking.
- (h) Why operating system is called resource manager?
- (j) What is time sharing operating system? What are its advantages and disadvantages?

**SECTION-B**  $(4 \times 10 = 40 \text{ Marks})$ 

- 2. Explain the following :
  - (a) Assembly Scheme
  - (b) One pass assembler

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- 3. Define macro. What are its advantages and disadvantages? Explain design of macro processor.
- 4. What is lexical analysis? What is its need? Explain how lexical analysis is different from syntax analysis ?
- 5. What is need of code optimization? Explain local and global optimization techniques with their relative merits and demerits
- 6. Write notes on the following:
  - (a) Linkage editor
  - (b) Bootstrap loader |
- 7. What is DBMS? What are its advantages and disadvantages? Explain three level architecture of DBMS.