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   www. allsubjects4you.com   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 is two pass assembler? Explain.

b) What are advantages of assembly language? Explain.

c) Define Macro and Macro processor.

d) What is memory allocation? Explain with example.

e) What is code optimization?

f) Define linkage editor. What is its use?

g) Explain the difference between Multiprogramming and Time-sharing operating system.

h) What is interpreter? Explain the difference between compiler and interpreter.

i) What are various loading schemes? Explain.

j) What is syntax and semantic analysis?

Section - B

(4 × 10 = 40)

Q2) What is assembler? Explain its working and architecture? Discuss how single pass assembler is different from two-pass assembler.

Q3) What are various phases of compiler? Explain various intermediate code generation and code optimization techniques.

Q4) What is operating system? Explain various types of operating system with their advantages and disadvantages?

Q5) Define DBMS. Explain its types and components.

Q6) Explain the structure of Text Editor? What are its functions? Give some commonly used Text editor with their functions.

Q7) (a) What is loader? Explain its use.

(b) What is macro expansion? Explain by taking suitable example.

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